

# LA-UR-17-23528

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Title: General Employee Training Self-Study

Author(s): Hanson, Todd

Intended for: Training

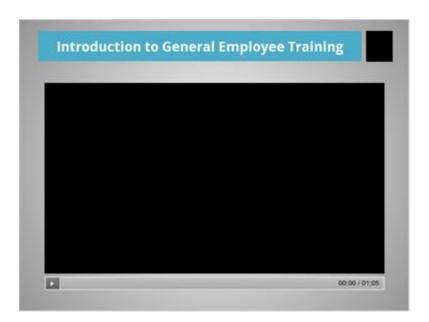
Issued: 2017-04-28



# **Module One**

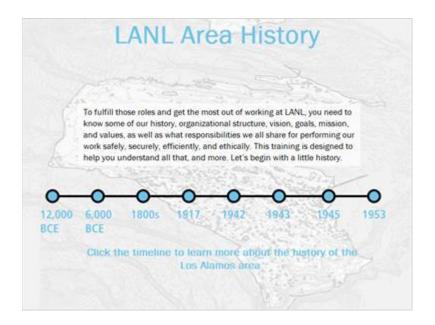
## 1. LANL

## 1.1 Introduction



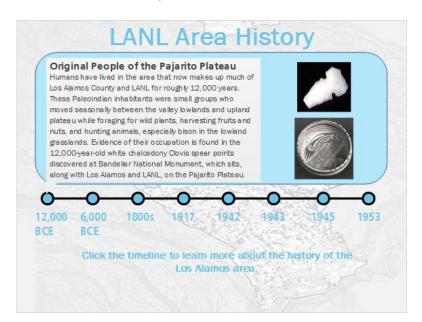
Notes:

## 1.2 History

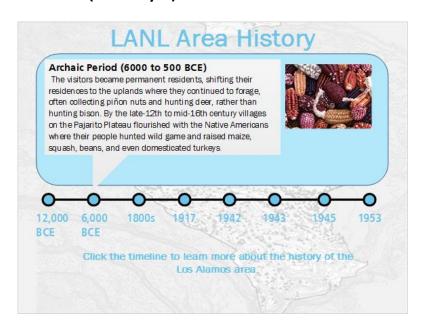


Notes:

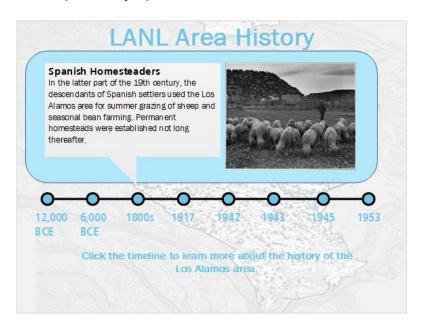
## 12,000BCE (Slide Layer)



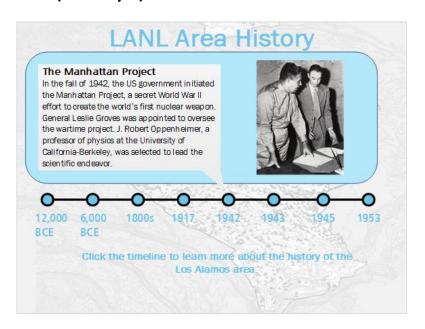
## 6000 BCE (Slide Layer)



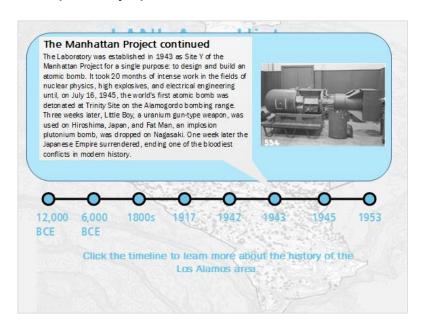
## 1800s (Slide Layer)



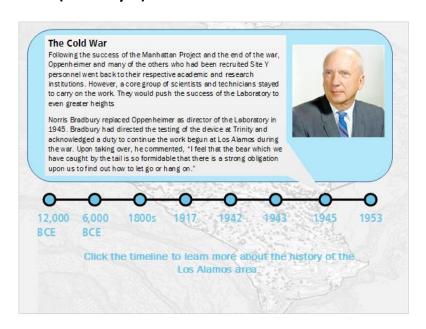
## 1942 (Slide Layer)



## 1943 (Slide Layer)



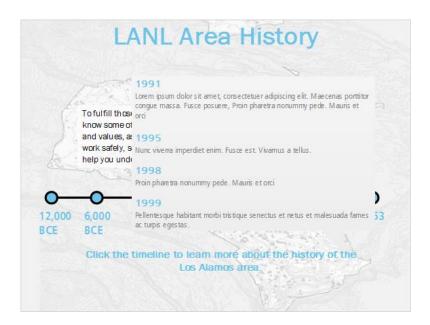
## 1945 (Slide Layer)



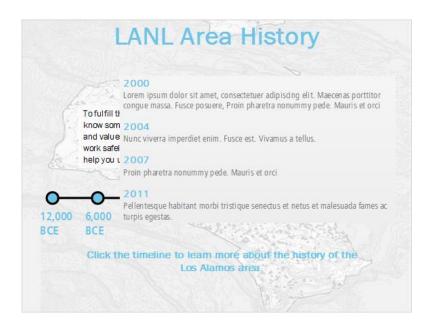
## 1953 (Slide Layer)



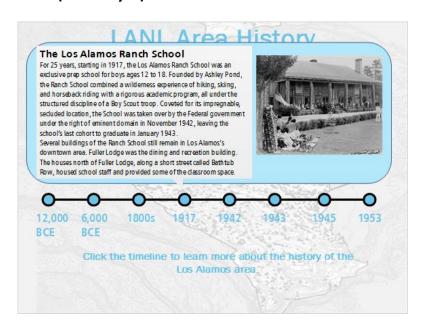
## 1990s (Slide Layer)



## 2000s (Slide Layer)



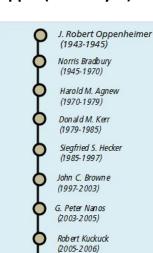
## 1917 (Slide Layer)



#### 1.3 Directors



## oppie (Slide Layer)



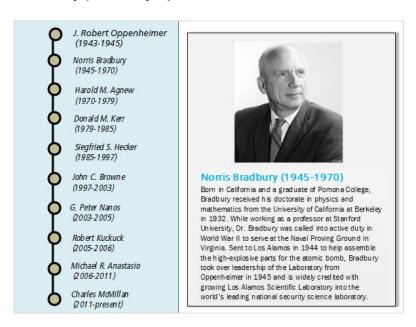
Michael R. Anastasio (2006-2011) Charles MdMillan (2011-present)



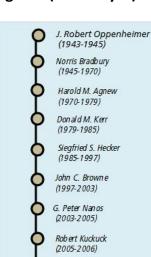
#### J. Robert Oppenheimer (1943-1945)

The Laboratory's first Director, Oppenheimer was a professor of physics at the University of California, Berkeley before being recruited by General Leslie Groves Jr. to oversee the construction of the Los Alamos laboratory of the Manhattan Project and lead the scientific development of the atomic bomb. Dr. Oppenheimer received his Bachelor's degree from Harvard University in 1925 and Ph.D. from University of Göttingen (Germany) in 1927.

## bradbury (Slide Layer)



## agnew (Slide Layer)

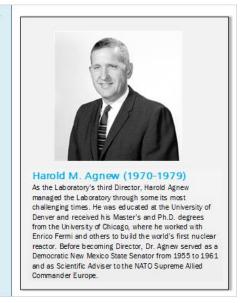


Michael R. Anastasio

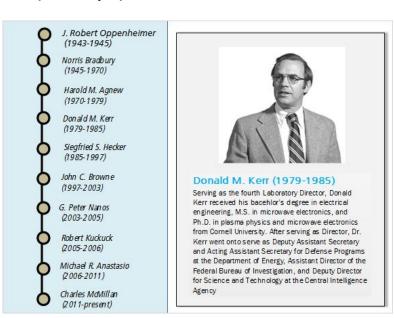
(2006-2011)

Charles MdMillan

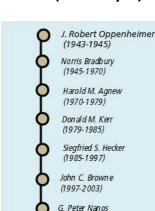
(2011-present)



## kerr (Slide Layer)



## hecker (Slide Layer)



(2005-2006) Michael R. Anastasio (2006-2011)

Charles MdMillan (2011-present)

(2003-2005)

Rob ert Kuckuck

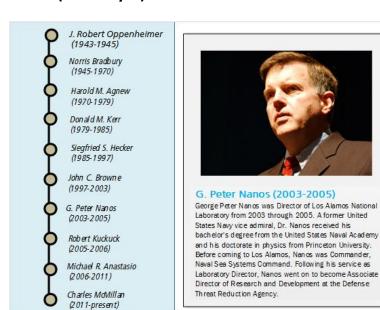


Siegfried S. Hecker (1985-1997)
As Laboratory Director from 1985 through 1997, Sig Hecker was one of the principal architects of the Laboratory's science-based stockpile stewardship approach to America's nuclear weapons arsenal. Dr. Hecker received his B.S., M.S., and Ph.D. in Metallurgy from Case Western Reserve University. Before joining Los Alamos National Laboratory, he was a senior research metallurgist at General Motors. After serving as Laboratory Director, Hecker went on to become the Director of the Center for International Security and the Freeman Spogli Institute for International Studies.

## brown (Slide Layer)



## nanos (Slide Layer)



## kuckuck (Slide Layer)



## anastasio (Slide Layer)



## Mcmillian (Slide Layer)



## 1.4 LANL Organizational Structure



## 1.5 LANL Organizational Structure



## 1.6 Goals and Strategy



## goals (Slide Layer)



## strategy (Slide Layer)



# 1.7 Laboratory Mission, Vision and Values



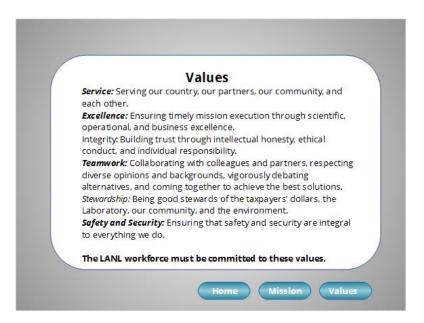
# Mission (Slide Layer)



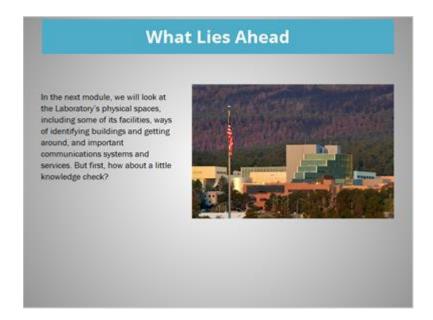
# Vision (Slide Layer)



## Values (Slide Layer)



#### 1.8 What Lies Ahead



Notes:

# 1.9 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice	
	to provide employment for northern New Mexico	
Х	to solve national security challenges	
	to become the oldest national Laboratory	
	to contribute to the economic base of the Southwest	

#### Feedback when correct:

That's right! You selected the correct response.

#### Feedback when incorrect:

The correct answer is 'to solve national security challenges'

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



## 1.10 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)

9	second in importance to getting a job done
0	only important when the budget allows
•	the LANL vision
0	of concern only to managers

Correct	Choice	
	second in importance to getting a job done	
	only important when the budget allows	
Х	the LANL vision	
	of concern only to managers	

#### Feedback when correct:

That's right! You selected the correct response.

### Feedback when incorrect:

The correct answer is 'the LANL vision'

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.11 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)

0	of concern only to Lab managers
0	items to be implemented in the future
0	to be applied whenever it is convenient
•	to be followed by each worker here

Correct	Choice	
	of concern only to Lab managers	
	items to be implemented in the future	
	to be applied whenever it is convenient	
Х	to be followed by each worker here	

#### Feedback when correct:

That's right! You selected the correct response.

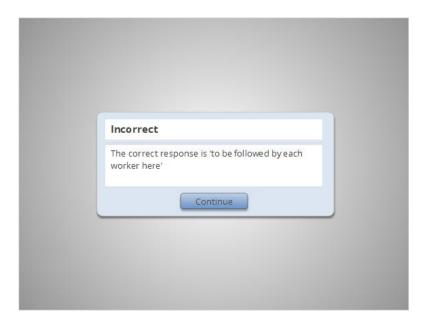
### Feedback when incorrect:

The correct response is 'to be followed by each worker here'

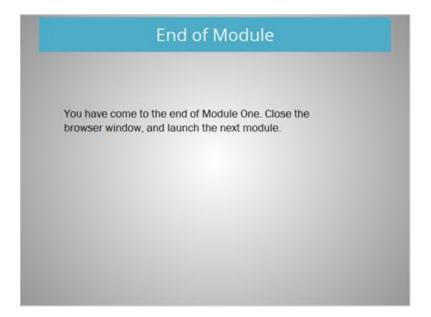
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.12 End of Module



# Module 2 - Geography

# 1. You are Here

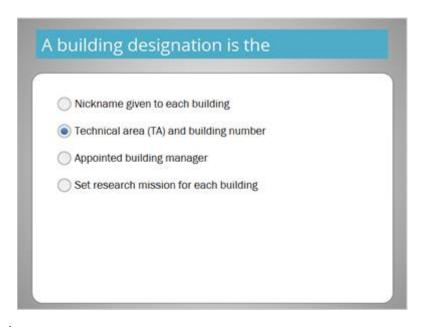
# 1.1 Geography Video w/Audio



**Notes:** 

# 1.2 Knowlege Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice	
	Nickname given to each building	
Х	Technical area (TA) and building number	
	Appointed building manager	
	Set research mission for each building	

#### Feedback when correct:

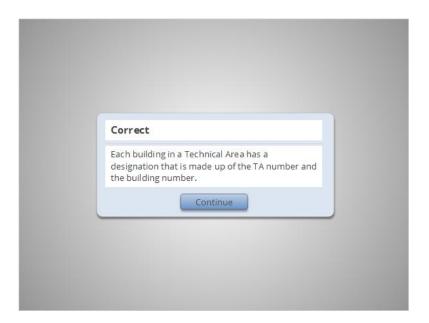
Each building in a Technical Area has a designation that is made up of the TA number and the building number.

#### Feedback when incorrect:

Each building in a Technical Area has a designation that is made up of the TA number and the building number.

#### Notes:

# **Correct (Slide Layer)**

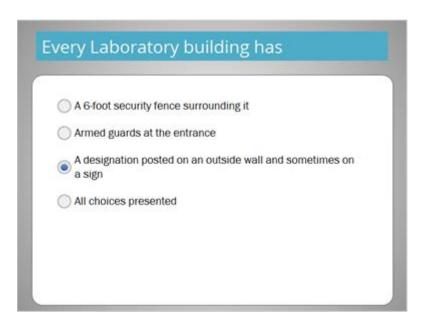


# **Incorrect (Slide Layer)**



## 1.3 Knowlege Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice	
	A 6-foot security fence surrounding it	
	Armed guards at the entrance	
X	A designation posted on an outside wall and sometimes on a sign	
	All choices presented	

#### Feedback when correct:

Each building in a Technical Area has a designation that is posted on an outside wall sign.

#### Feedback when incorrect:

Each building in a Technical Area has a designation that is posted on an outside wall sign.

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



## 1.4 Knowlege Check

(Multiple Choice, 10 points, 1 attempt permitted)

Overlooke	d if the driver is on important business
Allowed fo	r quick errands at TA-3
Not allowe	ed but there are no consequences
<ul><li>Subject to</li></ul>	citations, fines, and towing

Correct	Choice	
	Overlooked if the driver is on important business	
	Allowed for quick errands at TA-3	
	Not allowed but there are no consequences	
Х	Subject to citations, fines, and towing	

#### Feedback when correct:

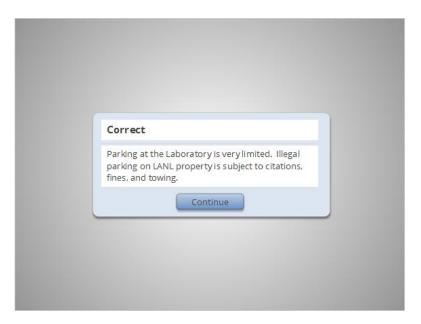
Parking at the Laboratory is very limited. Illegal parking on LANL property is subject to citations, fines, and towing.

### Feedback when incorrect:

Parking at the Laboratory is very limited. Illegal parking on LANL property is subject to citations, fines, and towing.

#### Notes:

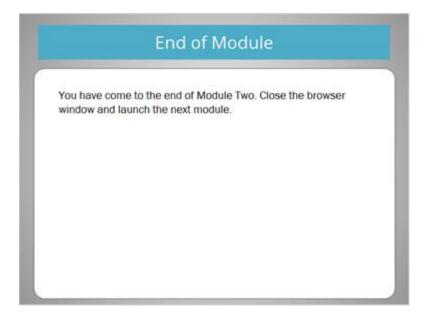
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.5 End of Module



**Notes:** 

# **Module Three – Working Safely**

# 1. 1. Safety Expectations

# 1.1 Introduction



Notes:

## 1.2 Safety Policy and Values



Notes:

## 1 (Slide Layer)















#### 1.3 Zero Accidents

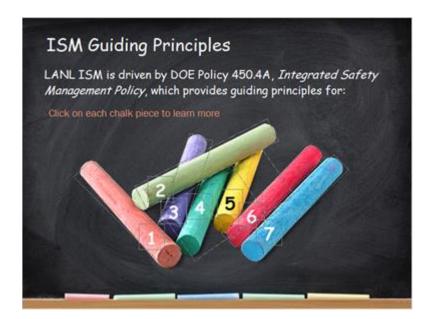


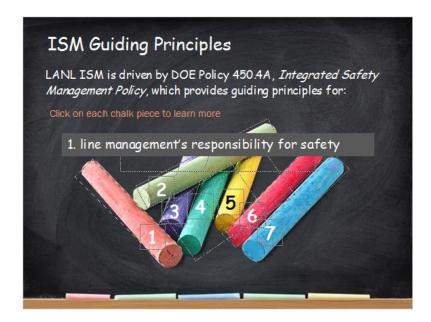
#### 1.4 ISM

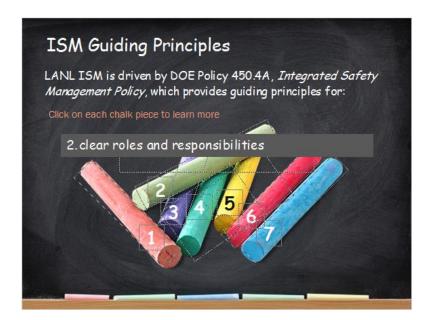


Notes:

## 1.5 ISM Guiding Principles



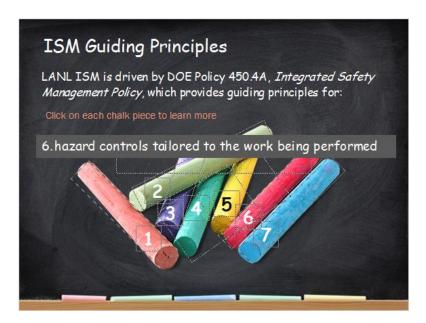


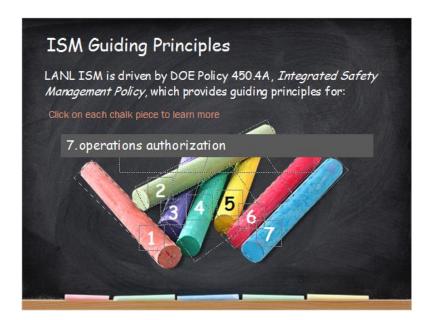




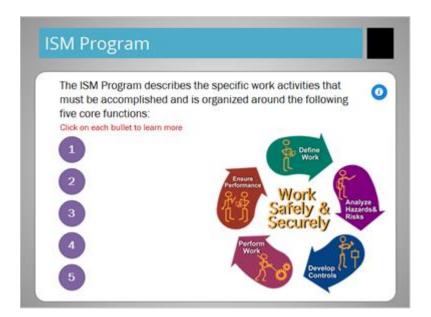




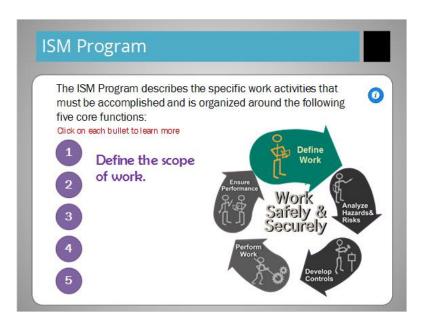


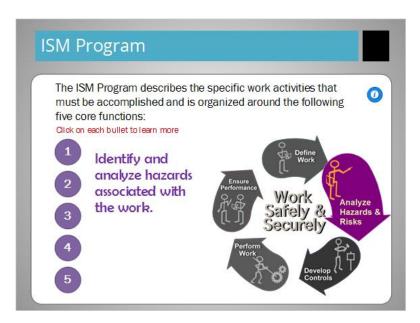


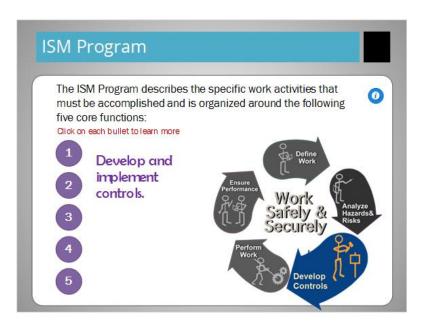
#### 1.6 ISM Program

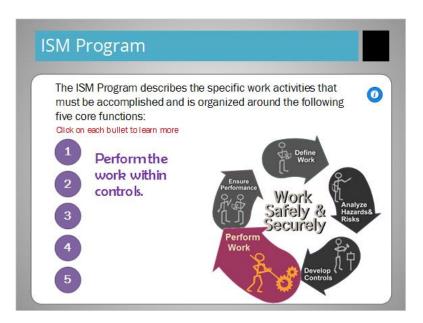


**Notes:** 

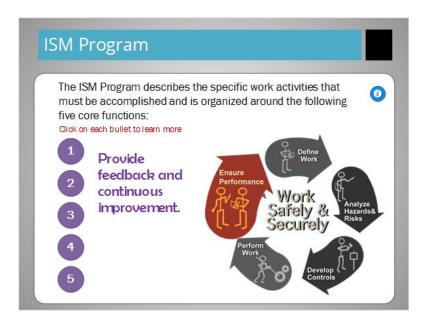






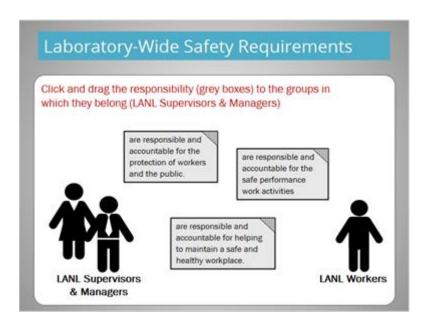


#### 5 (Slide Layer)



## 1.7 Safety Requirements

(Drag and Drop, 10 points, 1 attempt permitted)



Drag Item	Drop Target
Group	Surpervisor
1	
Group	Worker
2	
Group	Worker
3	

# Drag and drop properties Snap dropped items to drop target (Stack random) Delay item drop states until interaction is submitted

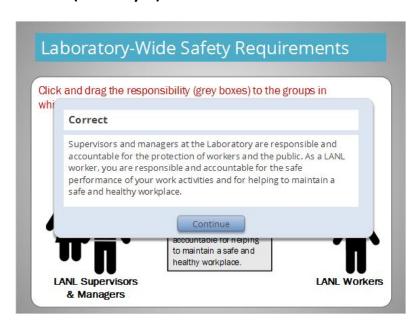
#### Feedback when correct:

Supervisors and managers at the Laboratory are responsible and accountable for the protection of workers and the public. As a LANL worker, you are responsible and accountable for the safe performance of your work activities and for helping to maintain a safe and healthy workplace.

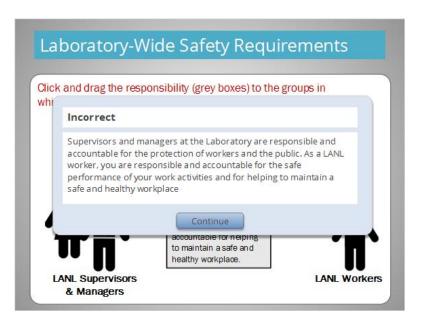
#### Feedback when incorrect:

Supervisors and managers at the Laboratory are responsible and accountable for the protection of workers and the public. As a LANL worker, you are responsible and accountable for the safe performance of your work activities and for helping to maintain a safe and healthy workplace

#### **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



## 1.8 Policy Page

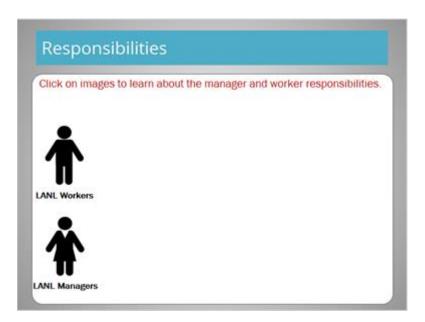


## 1.9 Work Management



**Notes:** 

### 1.10 Responsibilities

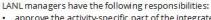


#### Managers (Slide Layer)

# Responsibilities

Click on images to learn about the manager and worker responsibilities.





- · approve the activity-specific part of the integrated work document (IWD) based on evaluating the adequacy of
- determine the competence and commitment of workers to perform specific work assignments in a safe, secure, and environmentally responsible manner, and authorize them as appropriate; and
- monitor work to ensure that it is executed in a safe, secure, and environmentally responsible manner in accordance with the IWD.



#### **Workers (Slide Layer)**

# Responsibilities

Click on images to learn about the manager and worker responsibilities.

You must not perform work unless it has been approved by your RLM and the FOD and you are confident that the work can be done



- · maintain required training and qualification to perform the
- provide practical knowledge and technical expertise, as needed, to define work tasks/steps, identify hazards, and establish controls that are workable;
- LANL Workers perform work in a safe, secure, and environmentally responsible manner and in accordance with any requirements contained in



- stop work when hazards change or when you encounter unexpected work conditions;
- use lessons learned from any control failures, near misses, or incidents to make improvements; and
- check frequently to ensure that controls are functioning and are effective in regulating the risks.

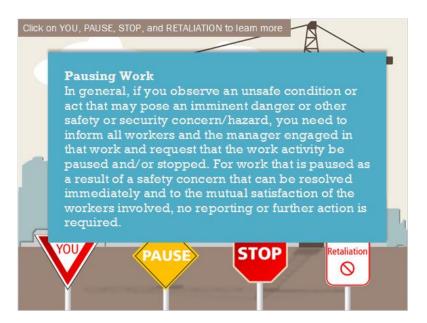
## 1.11 Pause and Stop



#### You (Slide Layer)



#### Pause (Slide Layer)



#### Stop (Slide Layer)



#### **Retaliation (Slide Layer)**



#### 1.12 Reporting



#### **Notify (Slide Layer)**



#### Safety Help Desk (Slide Layer)



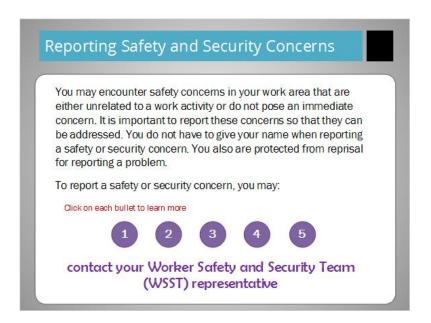
#### **ECP (Slide Layer)**



#### **Security Help Line (Slide Layer)**

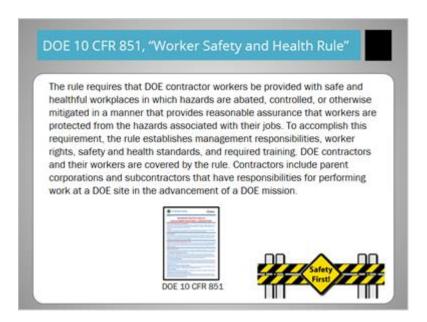


#### **WSST (Slide Layer)**

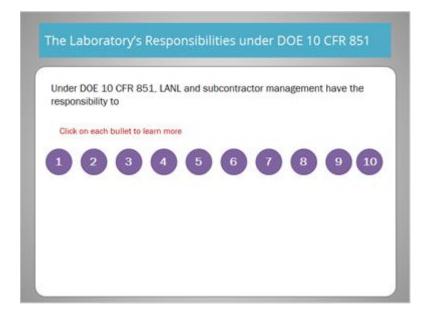


## 2. 2. Worker Protection Programs

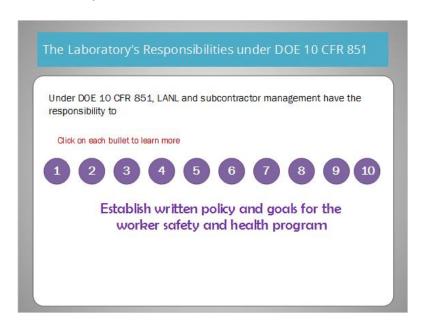
## 2.1 Worker Safety and Health Rule

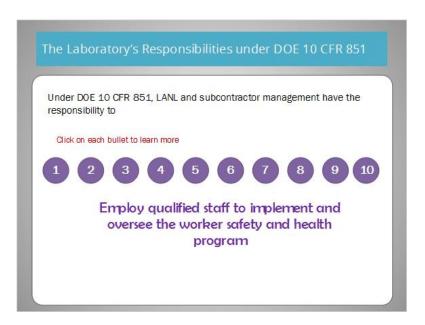


## 2.2 Lab's Responsibilities

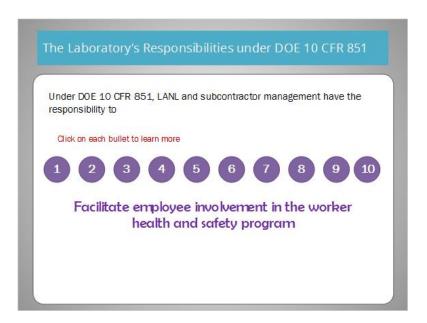


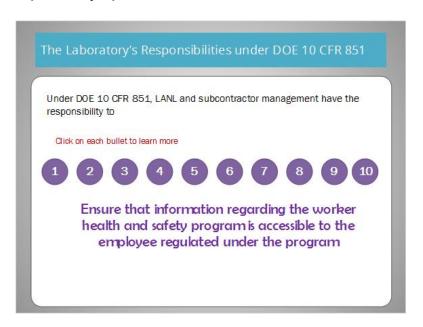
**Notes:** 

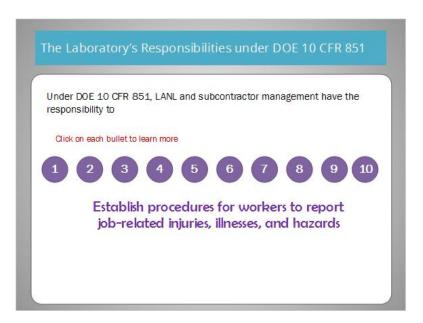


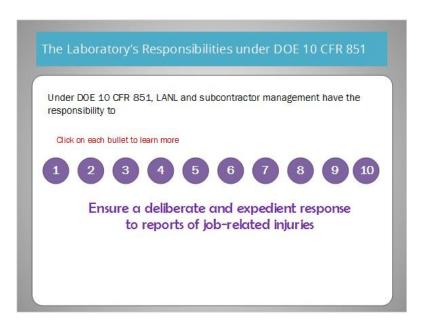


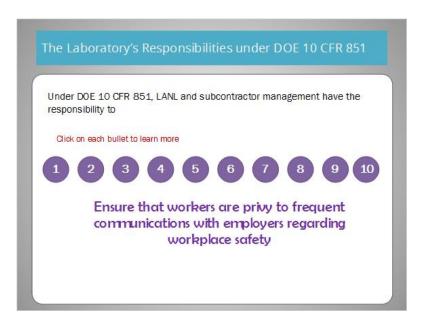


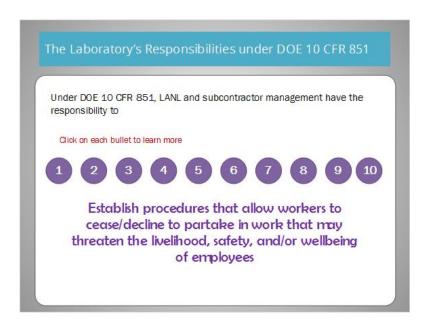


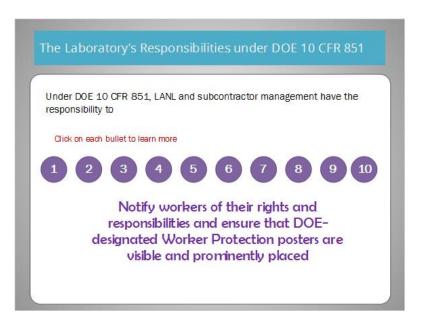




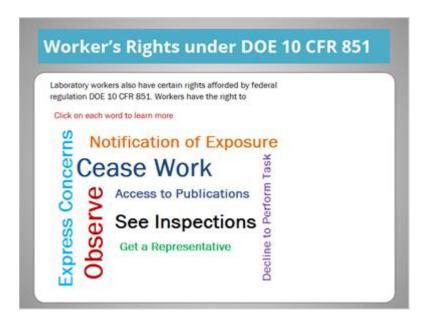




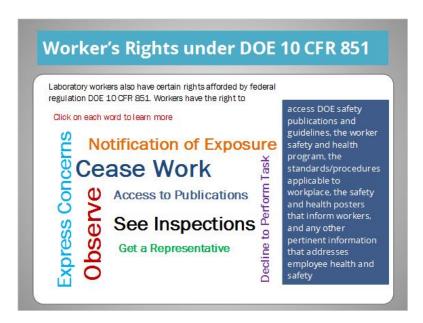




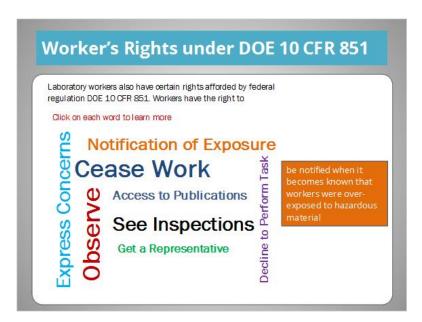
# 2.3 Workers Rights



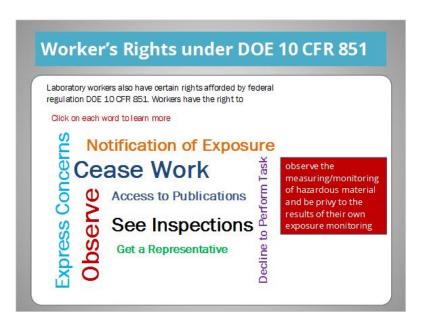
#### Access (Slide Layer)



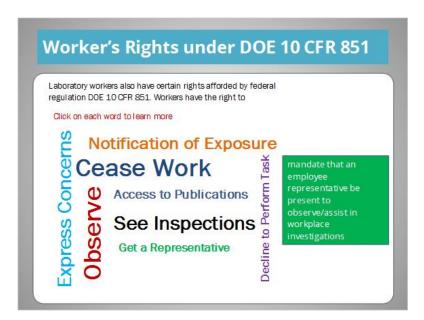
#### **Notification (Slide Layer)**



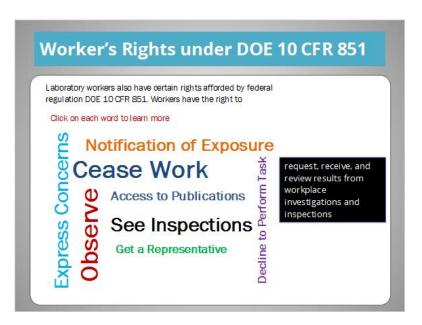
#### **Observe (Slide Layer)**



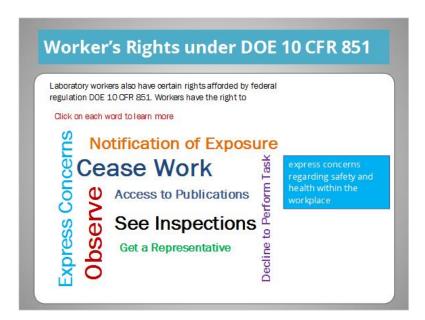
#### **Representative (Slide Layer)**



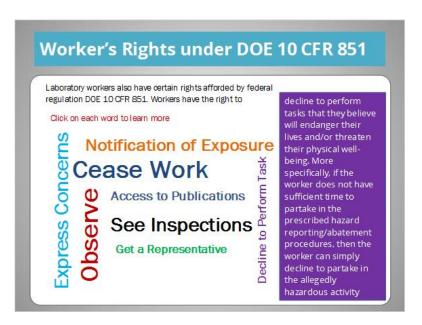
## **Inspections (Slide Layer)**



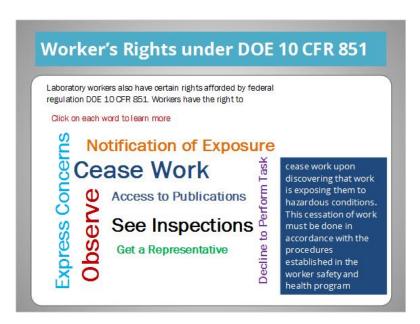
#### **Concerns (Slide Layer)**



#### **Decline (Slide Layer)**



#### Cease (Slide Layer)

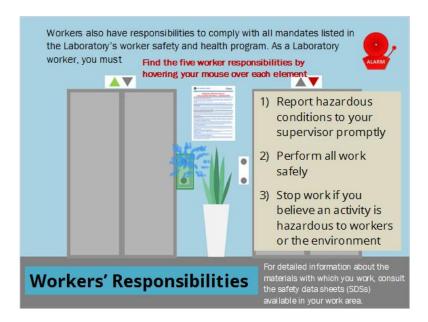


## 2.4 Workers' Responsibilities



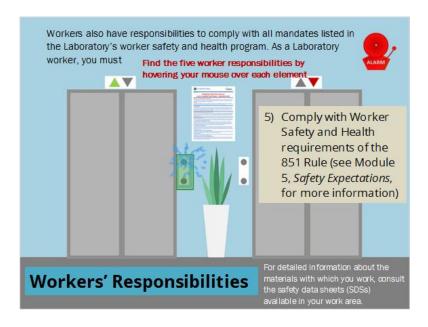
**Notes:** 

#### Sparks (Slide Layer)

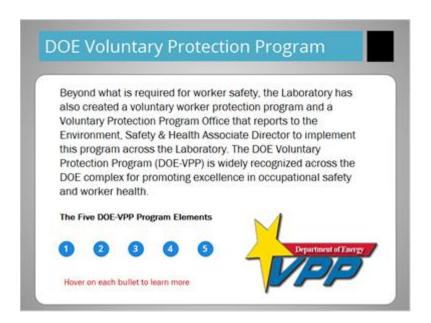


#### Alarm (Slide Layer)





#### 2.5 DOE VPP

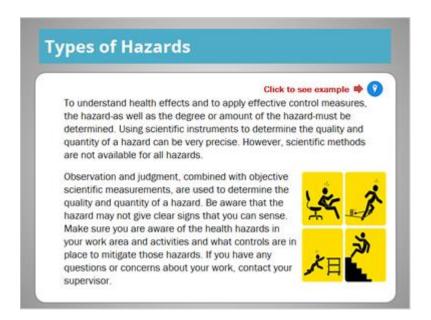


#### 2.6 Employee WSST Involvement



## 3. 3. Hazards in the Workplace

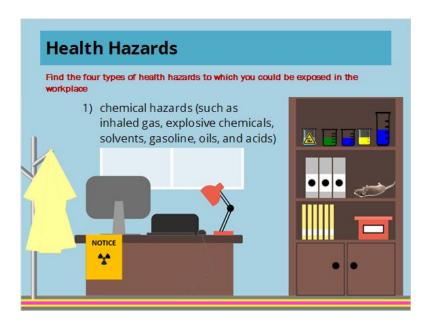
## 3.1 Types of Hazards



#### 3.2 Health Hazards



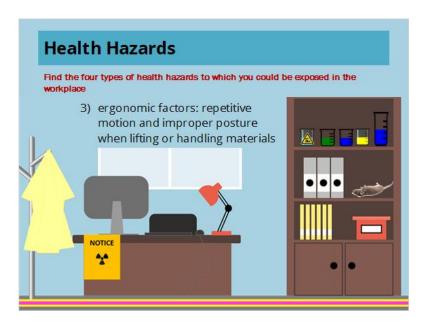
## **Chemical (Slide Layer)**



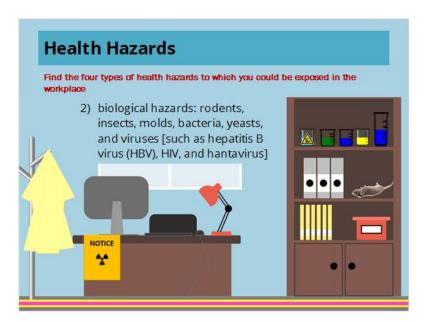
## Others (Slide Layer)



## **Ergo (Slide Layer)**



## **Biological (Slide Layer)**

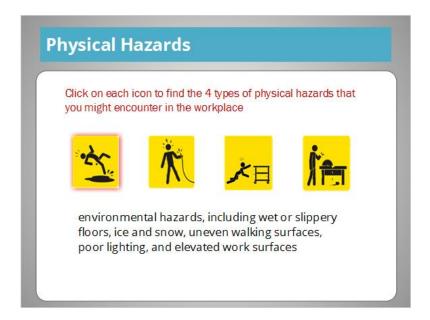


## 3.3 Physical Hazards

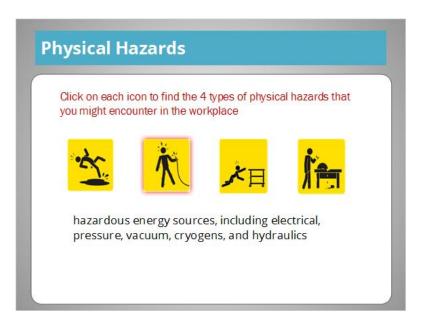


**Notes:** 

### **Environmental (Slide Layer)**



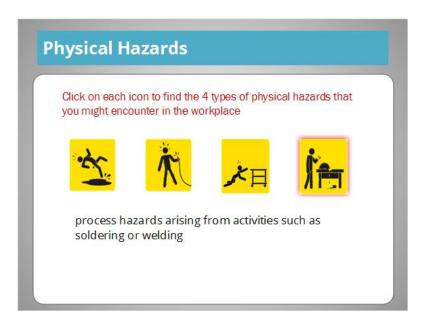
## **Electrical (Slide Layer)**



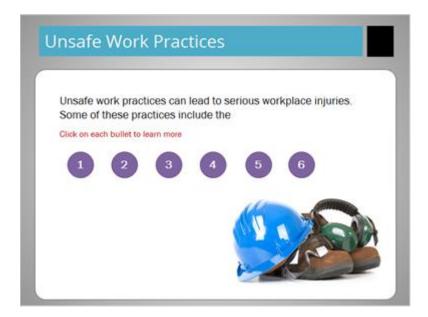
## **Mechanical (Slide Layer)**



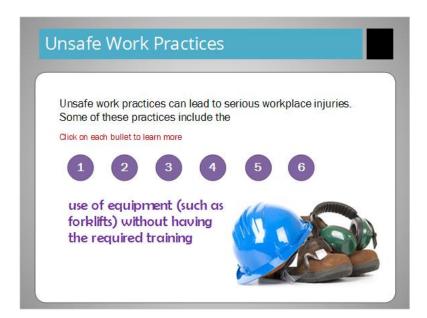
## **Process (Slide Layer)**

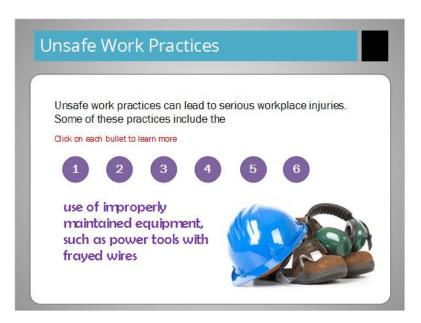


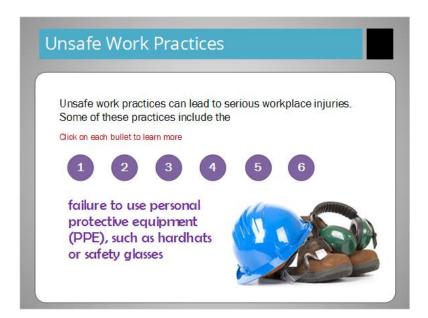
# 3.4 Unsafe Work Practices















## 3.5 Accidents, Injuries, and Illnesses











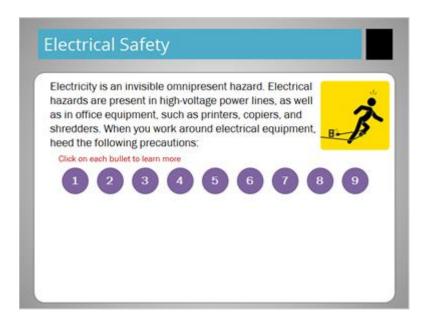


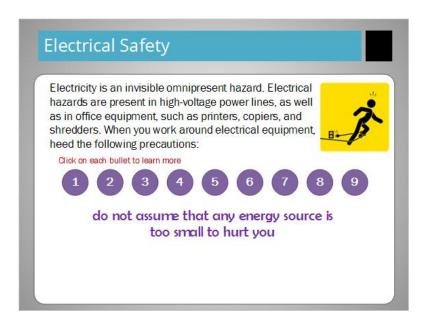


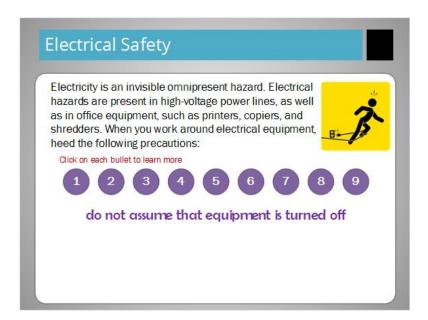


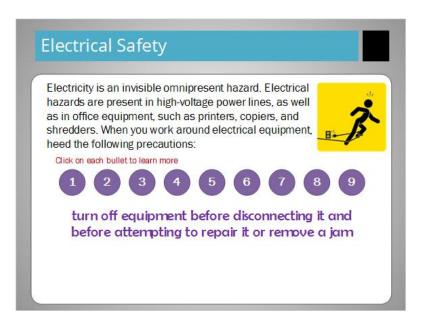


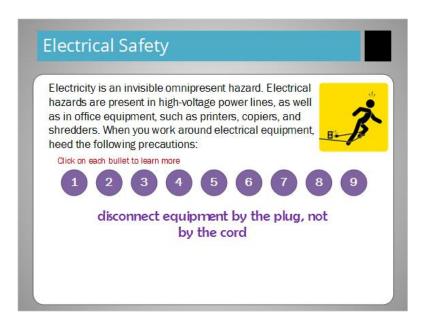
# 3.6 Electrical Safety

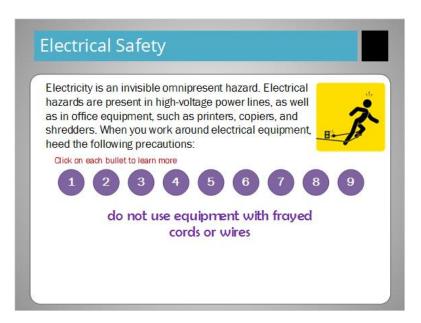




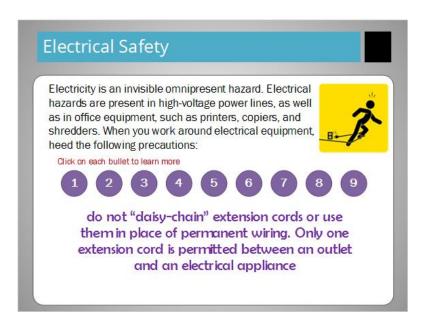


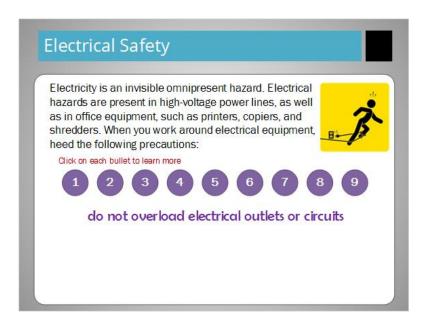


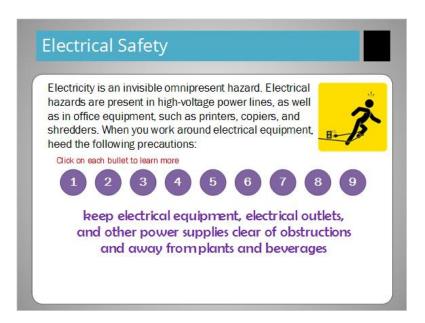




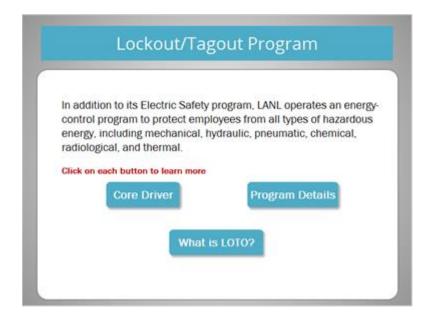




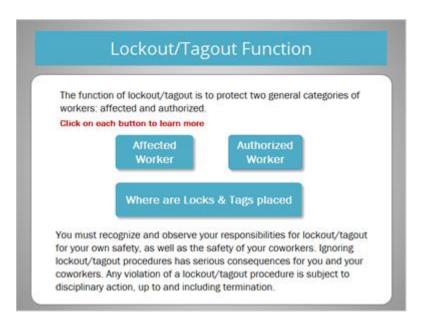




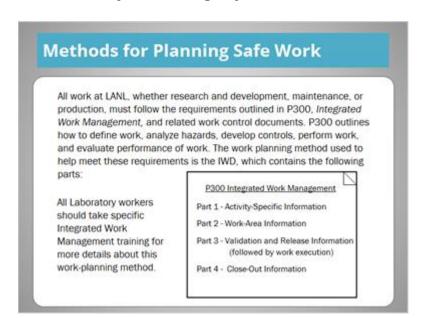
# 3.7 Lockout/Tagout Program



## 3.8 Lockout/Tagout Function



## 3.9 Methods for Planning Safe Work

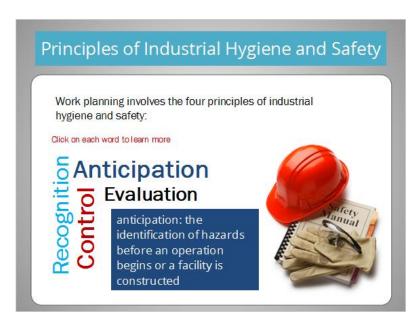


## 3.10 Principles of Industrial Hygiene and Safety

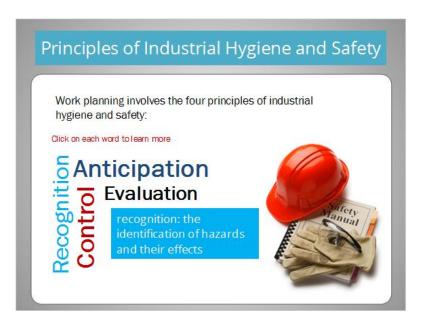


Notes:

### **Anticipation (Slide Layer)**



## **Recognition (Slide Layer)**



## **Evaluation (Slide Layer)**



## **Control (Slide Layer)**



# **3.11 Controlling Hazards**

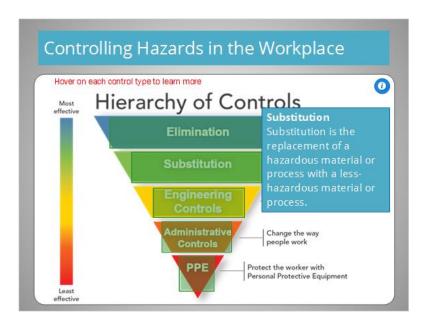


Notes:

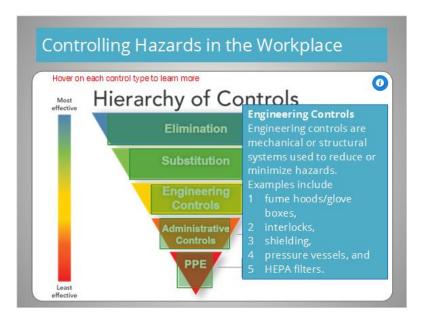
## **Elimination (Slide Layer)**



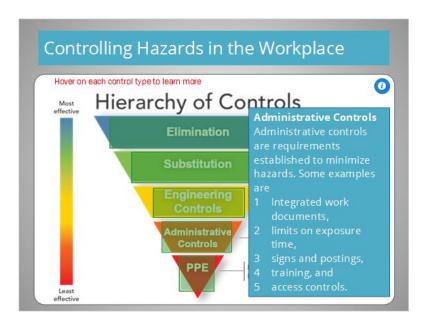
## **Substitution (Slide Layer)**



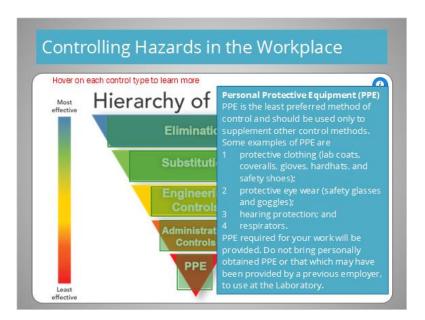
## **EngineeringControls (Slide Layer)**



## **Administrative (Slide Layer)**



### PPE (Slide Layer)



### 3.12 What lies ahead



## 3.13 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)

	Provide a workplace that is free from recognized and uncontrolled hazards
)	Prevent government interference
)	Prevent sexual harassment
)	All listed

Correct	Choice
Х	Provide a workplace that is free from recognized and uncontrolled hazards
	Prevent government interference
	Prevent sexual harassment
	All listed

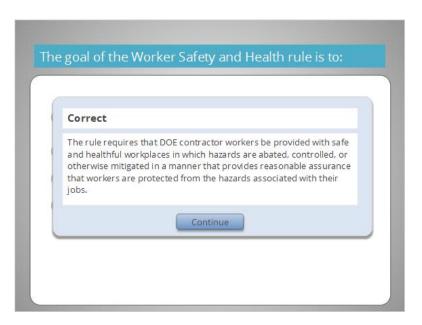
#### Feedback when correct:

The rule requires that DOE contractor workers be provided with safe and healthful workplaces in which hazards are abated, controlled, or otherwise mitigated in a manner that provides reasonable assurance that workers are protected from the hazards associated with their jobs.

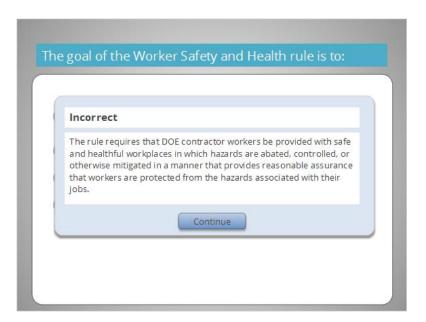
#### Feedback when incorrect:

The rule requires that DOE contractor workers be provided with safe and healthful workplaces in which hazards are abated, controlled, or otherwise mitigated in a manner that provides reasonable assurance that workers are protected from the hazards associated with their jobs.

## **Correct (Slide Layer)**

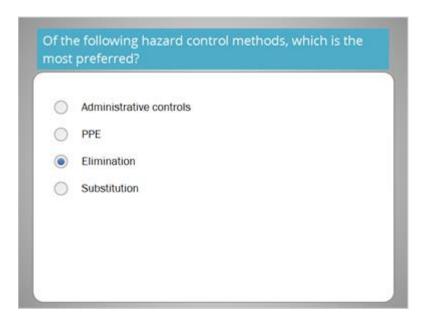


## **Incorrect (Slide Layer)**



## 3.14 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	Administrative controls
	PPE
Х	Elimination
	Substitution

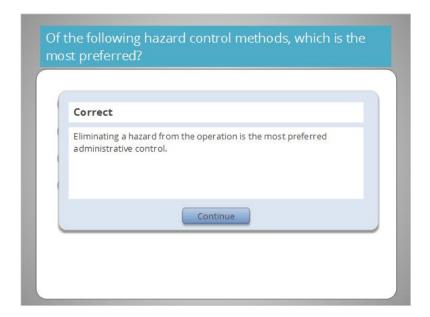
#### Feedback when correct:

Eliminating a hazard from the operation is the most preferred administrative control.

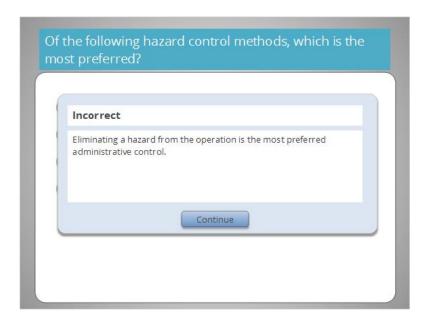
#### Feedback when incorrect:

Eliminating a hazard from the operation is the most preferred administrative control.

## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



# 3.15 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)

9	Injuries caused by the unexpected release of hazardous energy
0	The unexpected startup of equipment or devices
9	Access to restricted areas after hours
•	Both; injuries caused by unexpected release of hazardous energy and the unexpected start up or equipment or devices

Correct	Choice
	Injuries caused by the unexpected release of hazardous energy
	The unexpected startup of equipment or devices
	Access to restricted areas after hours
X	Both; injuries caused by unexpected release of hazardous energy and the unexpected start up or equipment or devices

### Feedback when correct:

That's right! You selected the correct response.

### Feedback when incorrect:

You did not select the correct response.

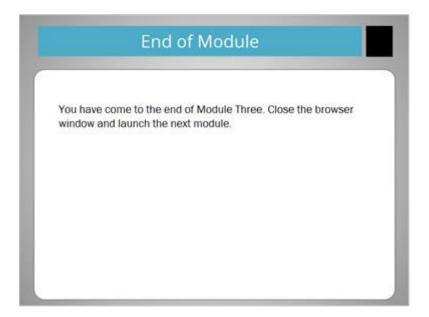
# **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



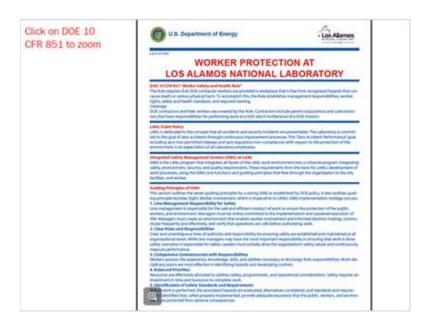
# 3.16 End of Course



Notes:

### 4.851

### 4.1 DOE 10 CFR 851



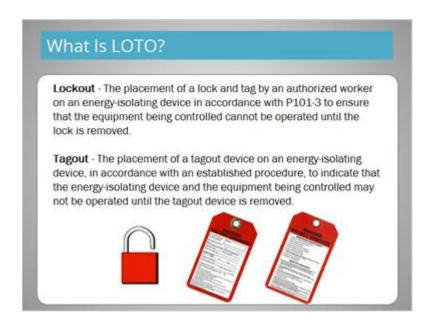
## 5. Video Scene

## 5.1 Policy page

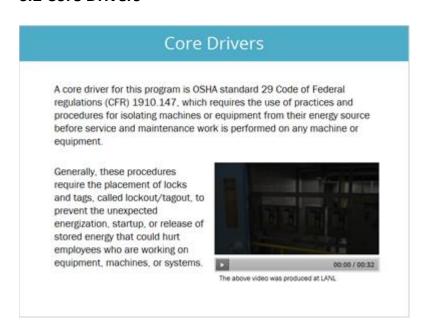


### 6. Untitled Scene

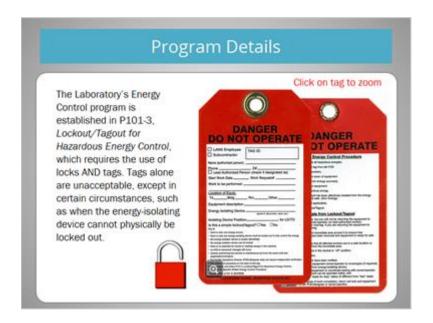
#### 6.1 What Is LOTO?



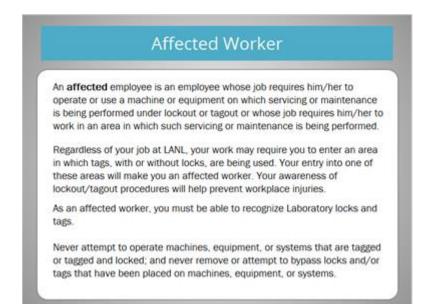
#### 6.2 Core Drivers



## 6.3 Program Details



## 6.4 Affected Worker



### 6.5 Authorized Worker

### Authorized Worker

An authorized employee is anyone who locks out or tags out machines or equipment to perform service or maintenance on that machine or equipment. An affected employee becomes an authorized employee when that employee's duties include performing servicing or maintenance covered under the standard.

At LANL, authorized workers are appointed by line managers to service or maintain equipment, machinery, or systems and are trained in accordance with P101-3. Authorized workers may also be affected workers.

Only authorized workers conduct lockout/tagout procedures. Workers must follow the policy P101-3, Lockout/Tagout for Hazardous Energy Control. Before you are authorized to execute lockout/tagout, you must complete hands-on classroom lockout/tagout training.

## 6.6 Where Are Tags Placed?

## Where Are Tags Placed?

Locks and tags can be found on circuit breakers, on/off switches, valves, or any device that turns off or secures a source of energy. For example, a lock and tag might be found on the circuit breaker in your building, on the power switch of a band saw, or on the valve of a sprinkler system.

Red locks and multiple-lock lockout devices are used with red tags that read DANGER-DO NOT OPERATE. These red locks and red tags are the only such devices allowed for use at LANL for the control of hazardous energy. Do not tamper with the lock. That red lock/red tag is there to protect someone's life. If, as an affected worker, you see any locks of a different color in a lockout/tagout situation, consult your supervisor.

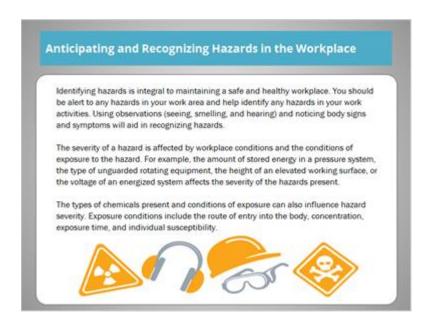






# 7. Anticipating Hazards

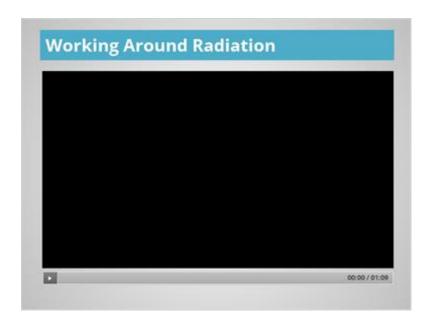
## 7.1 Anticipating and Recognizing Hazards in the Workplace



## **Module Four - GERT**

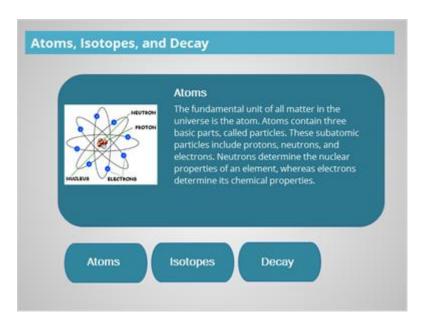
# 1. Working around Radiation

## 1.1 Introduction

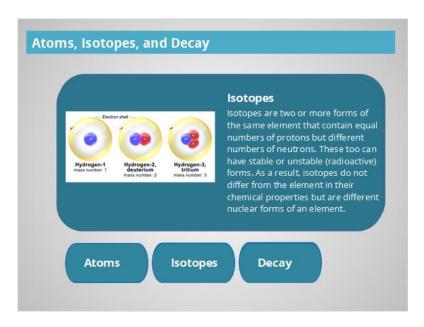


**Notes:** 

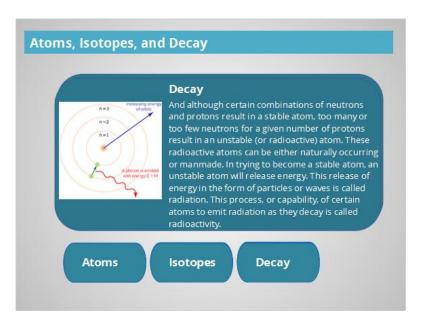
## 1.2 Atoms, Isotopes, and Decay



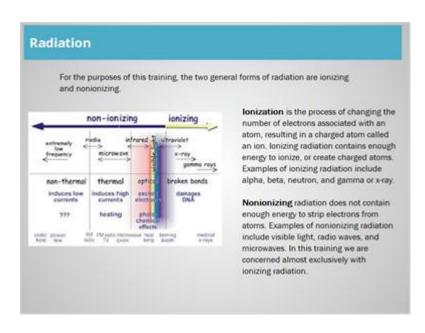
## **Isotopes (Slide Layer)**



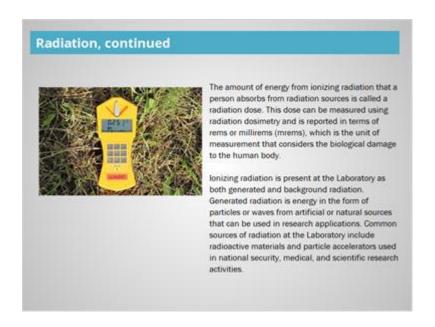
## **Decay (Slide Layer)**



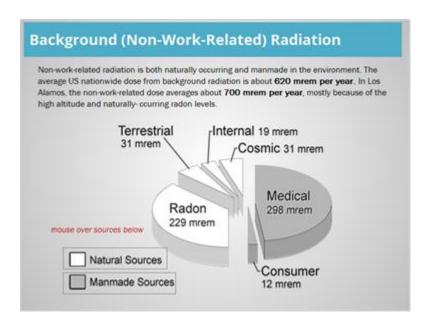
#### 1.3 Radiation



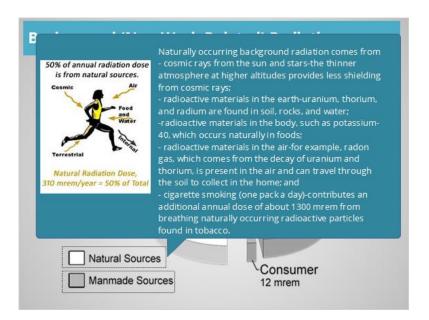
### 1.4 Radiation, continued



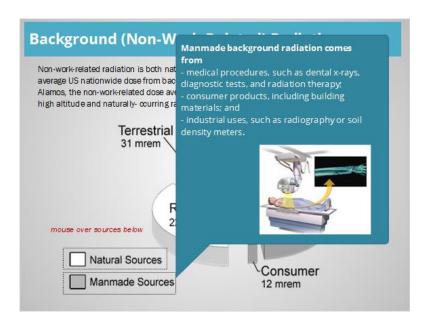
## 1.5 Background (Non-Work-Related) Radiation



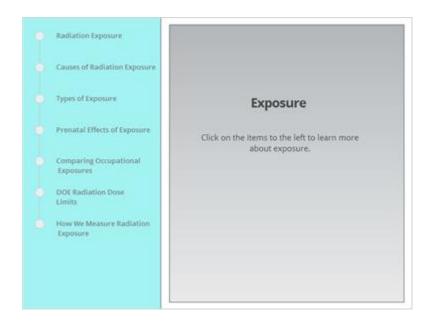
### **Naturally (Slide Layer)**



### Manmade (Slide Layer)



## 1.6 Radiation Exposure



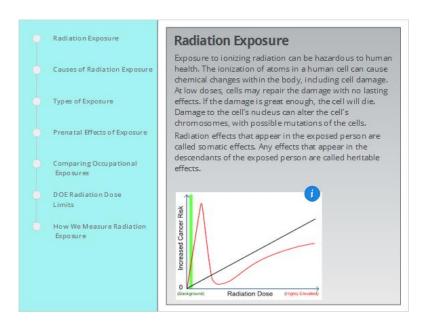
#### **Notes:**

The Timeline interaction lets learners discover the events on a timeline.

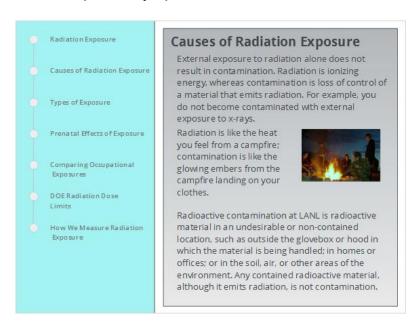
Use the Timeline interaction to:

- Walk through a series of periods and events.
- Highlight key milestones in a schedule.
- Explain the steps in a sequence.

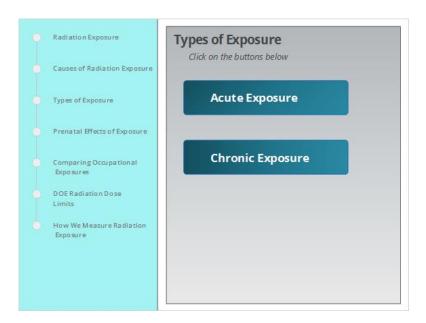
### **Exposure (Slide Layer)**



### causes-2 (Slide Layer)



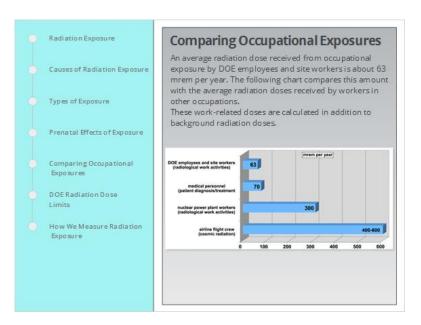
## types-3 (Slide Layer)



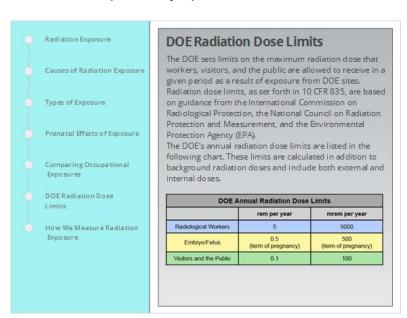
## prenatal-4 (Slide Layer)



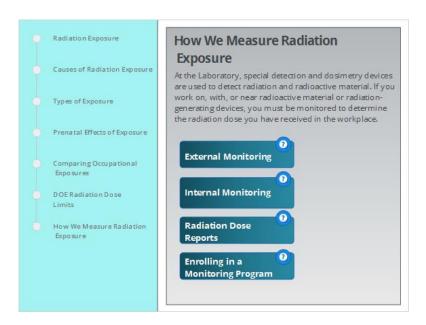
### occupational-5 (Slide Layer)



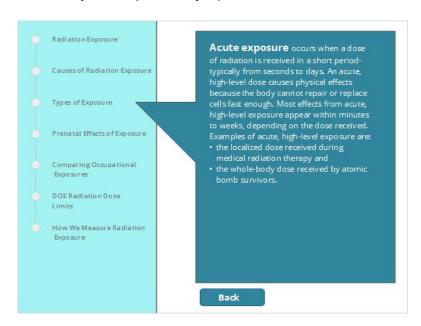
## dose-limits-6 (Slide Layer)



## Measure (Slide Layer)



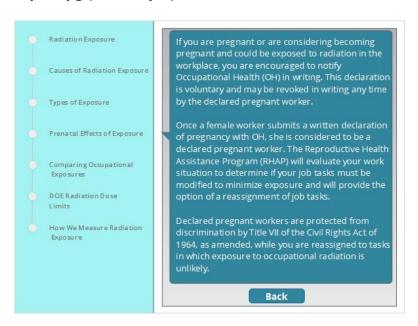
## **Acute exposure (Slide Layer)**



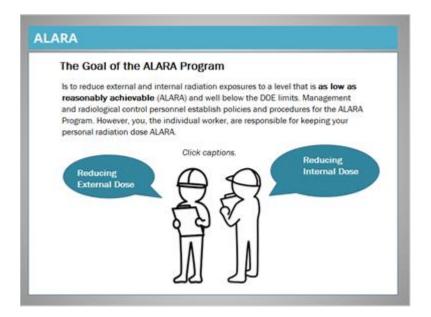
### **Chronic exposure (Slide Layer)**



### report-pg (Slide Layer)

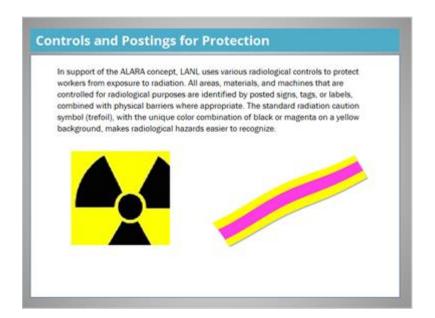


#### 1.7 ALARA

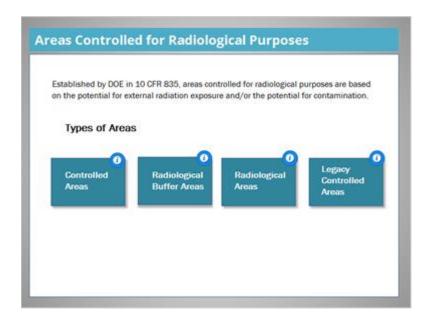


Notes:

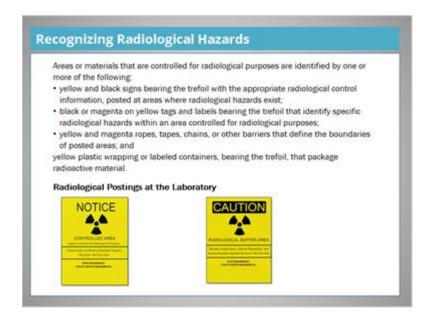
## 1.8 Controls and Postings for Protection



#### 1.9 Controlled Areas

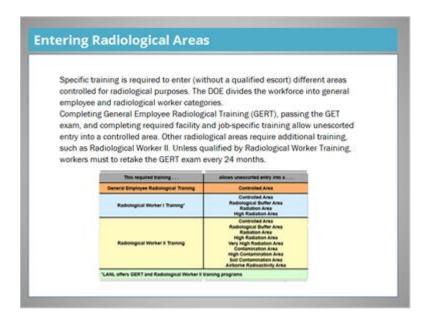


## 1.10 Recognizing Radiological



**Notes:** 

## 1.11 Entering Radiological Areas



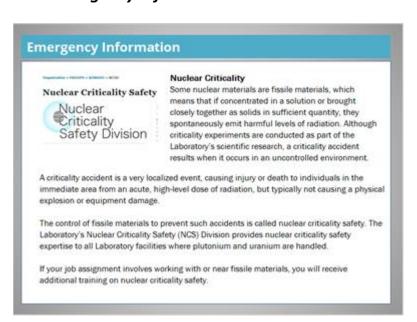
## 1.12 Responsibilities



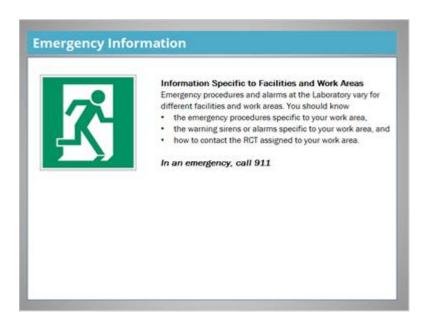
### 1.13 Responsibilities



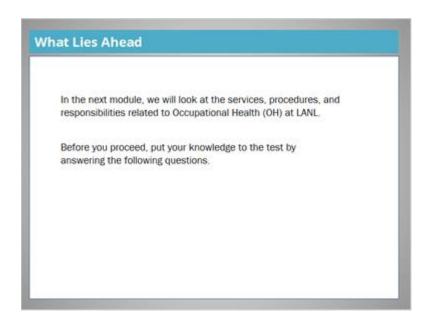
## 1.14 Emergency Information



## 1.15 Emergency Information

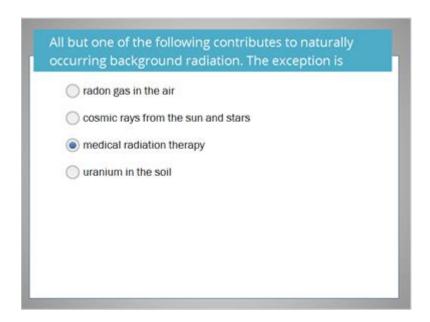


### 1.16 What Lies Ahead



## 1.17 knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	radon gas in the air
	cosmic rays from the sun and stars
Х	medical radiation therapy
	uranium in the soil

#### Feedback when correct:

That's right! You selected the correct response.

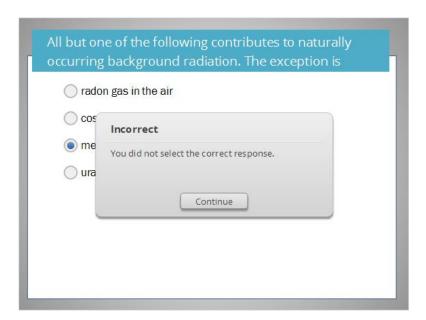
#### Feedback when incorrect:

You did not select the correct response.

## **Correct (Slide Layer)**

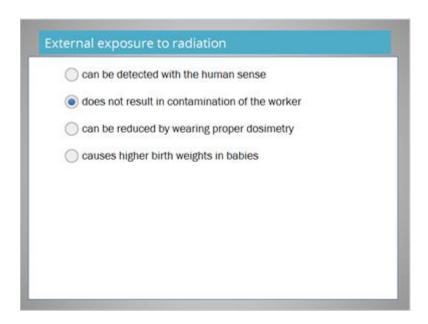


## **Incorrect (Slide Layer)**



## 1.18 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	can be detected with the human sense
Х	does not result in contamination of the worker
	can be reduced by wearing proper dosimetry
	causes higher birth weights in babies

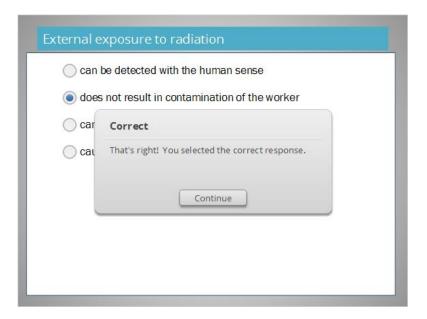
#### Feedback when correct:

That's right! You selected the correct response.

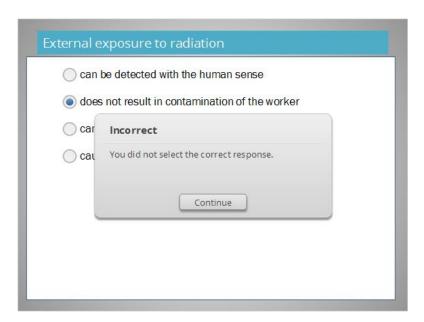
#### Feedback when incorrect:

You did not select the correct response.

## **Correct (Slide Layer)**

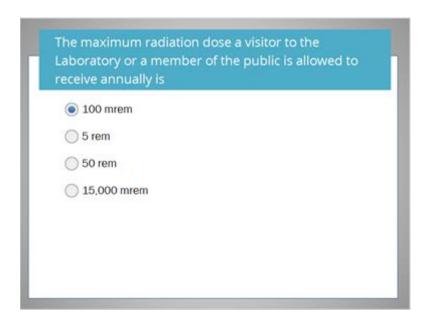


## **Incorrect (Slide Layer)**



## 1.19 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
Х	100 mrem
	5 rem
	50 rem
	15,000 mrem

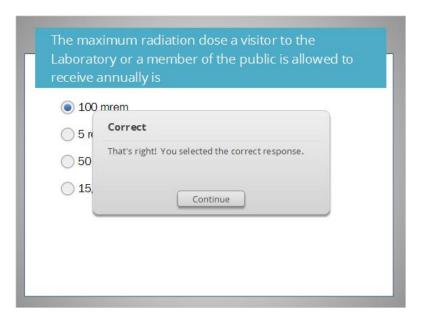
#### Feedback when correct:

That's right! You selected the correct response.

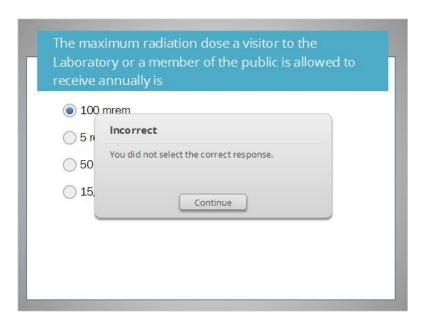
#### Feedback when incorrect:

You did not select the correct response.

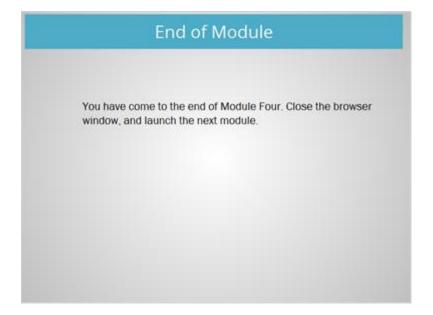
## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



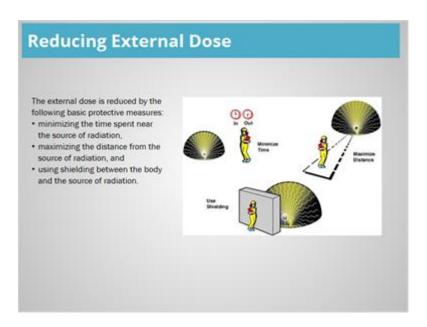
# 1.20 End of Module



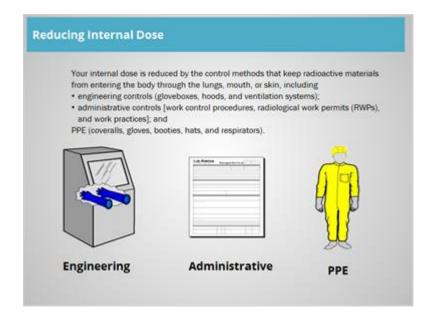
Notes:

## 2. media

## 2.1 reducing external



## 2.2 reducing internal dose



# **Module Five - Working Healthy**

# 1. Occuptational Health

## 1.1 Introduction



**Notes:** 

### 1.2 Occupational Health Services



Notes:

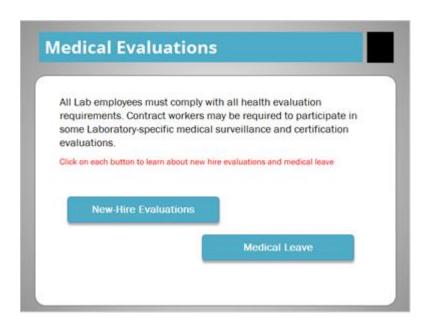
#### Mission (Slide Layer)



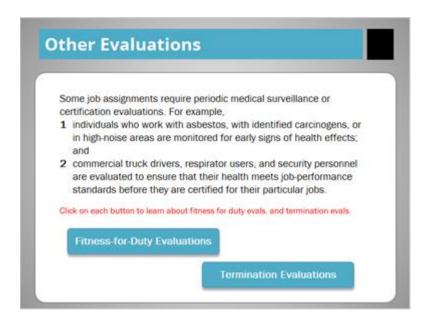
### **Medical Services (Slide Layer)**



### 1.3 Medical Evaluations



#### 1.4 Other Evaluations



## 1.5 Work-Related Injuries or Illnesses



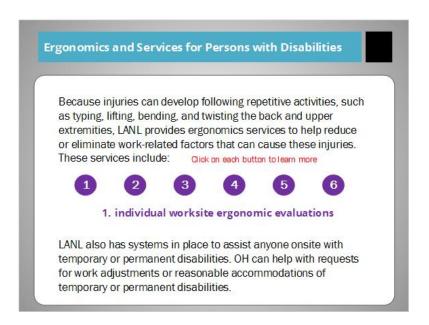
### 1.6 Reporting Work-Related Injuries & Illnesses



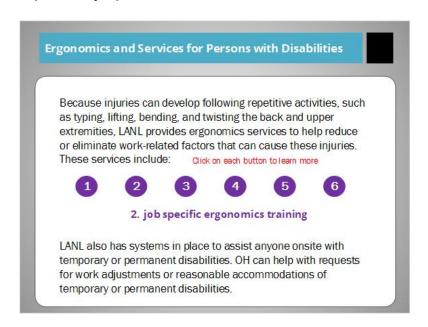
## 1.7 Ergonomics & Services for Persons w/ Disabilities



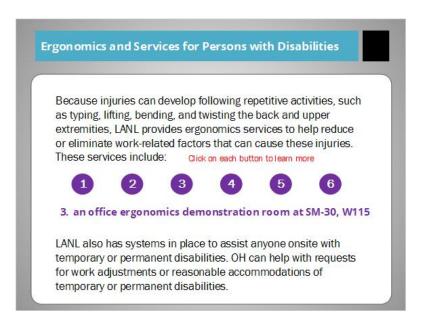
### 1 (Slide Layer)



### 2 (Slide Layer)



### 3 (Slide Layer)



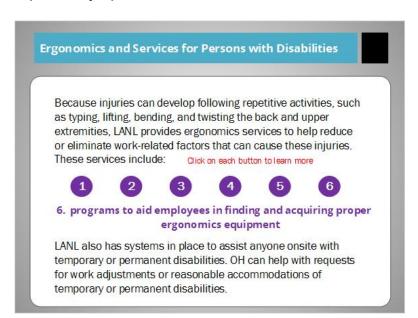
### 4 (Slide Layer)



### 5 (Slide Layer)



### 6 (Slide Layer)



## 1.8 Reproductive Health



#### 1.9 Travel Clinic Services



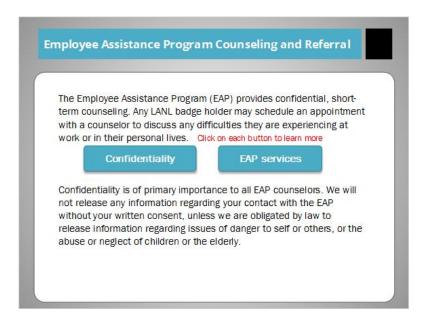
## 1.10 EAP Counseling & Referral



## **Services (Slide Layer)**



### **Confidentiality (Slide Layer)**



#### 1.11 Preventive Medicine Services



### 1.12 Your Medical Records



### **Medical Records (Slide Layer)**



### Personal Health (Slide Layer)



### **Supervisor (Slide Layer)**



### **Injury (Slide Layer)**



### **Workers Comp (Slide Layer)**



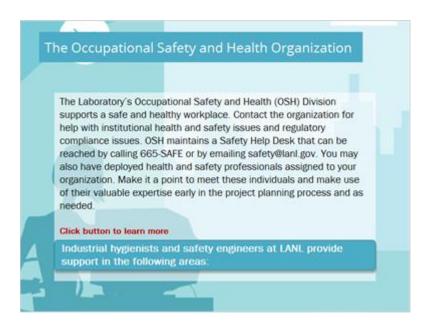
# 2. Occupational Safety

## 2.1 Industrial Hygiene and Safety

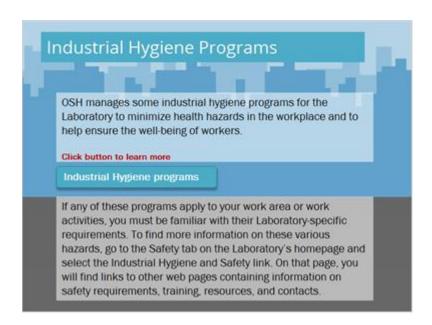


Notes:

### 2.2 OSH Organization



### 2.3 Industrial Hygiene Programs



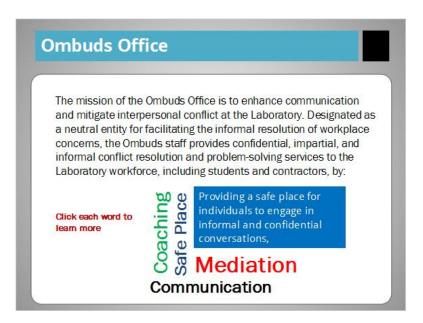
### 2.4 Industrial Safety Programs



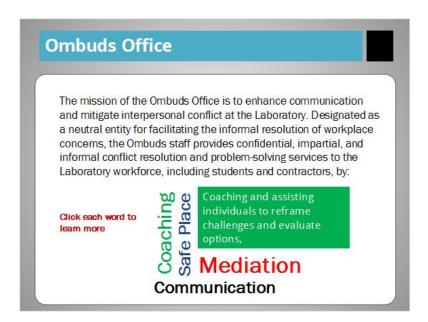
### 2.5 Ombuds Office



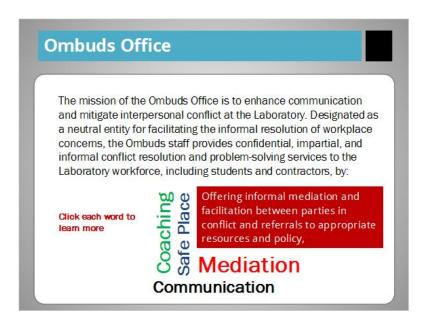
### Safe (Slide Layer)



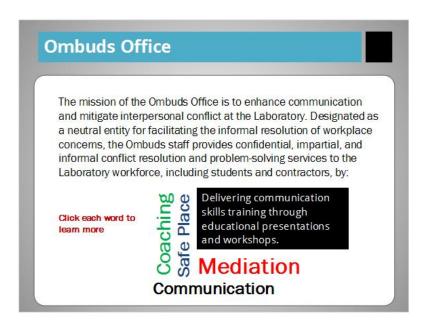
## **Coaching (Slide Layer)**



### **Mediation (Slide Layer)**



### **Communication (Slide Layer)**



### 2.6 What Lies Ahead



## 2.7 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	ask for help through OH

	try to overcome the problem yourself
X	call the protective force
	none of the above

### Feedback when correct:

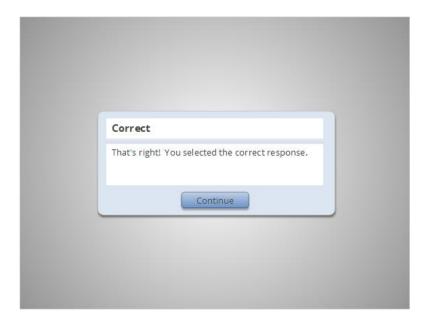
That's right! You selected the correct response.

### Feedback when incorrect:

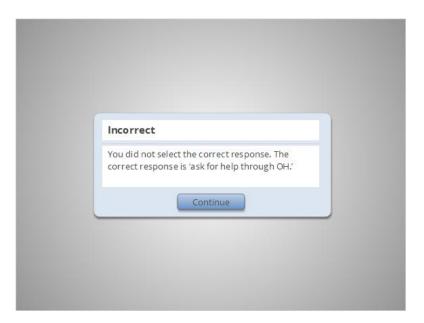
You did not select the correct response. The correct response is 'ask for help through OH.'

### Notes:

## **Correct (Slide Layer)**

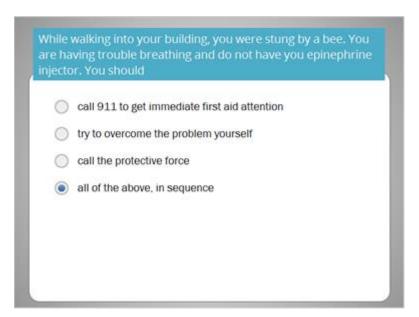


## **Incorrect (Slide Layer)**



# 2.8 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	call 911 to get immediate first aid attention

	try to overcome the problem yourself
	call the protective force
Х	all of the above, in sequence

### Feedback when correct:

That's right! You selected the correct response.

### Feedback when incorrect:

You did not select the correct response. The correct response is all of the above, in sequence.

# **Correct (Slide Layer)**

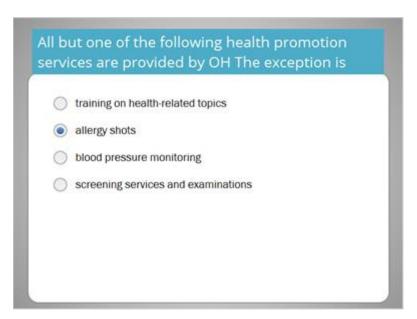


## **Incorrect (Slide Layer)**



# 2.9 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	training on health-related topics

Х	allergy shots
	blood pressure monitoring
	screening services and examinations

### Feedback when correct:

That's right! You selected the correct response.

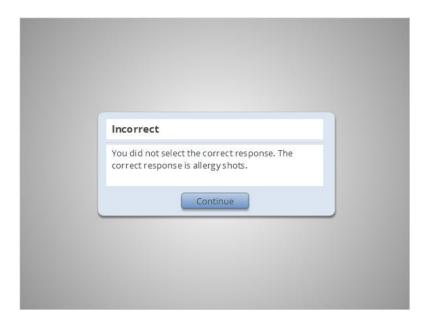
### Feedback when incorrect:

You did not select the correct response. The correct response is allergy shots.

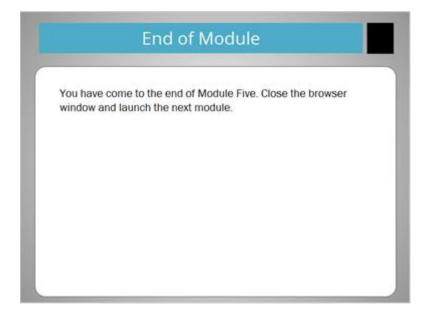
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



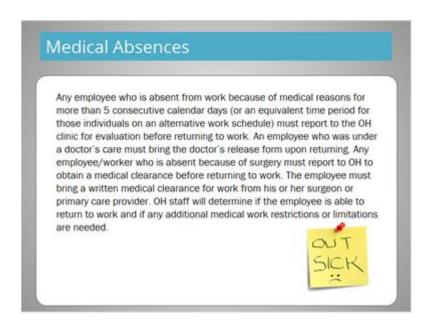
# 2.10 End of Module



**Notes:** 

## 3. Lightboxes

### 3.1 Medical Absences



### 3.2 New Hires



### 3.3 Fitness-for-Duty Evaluations

## Fitness-for-Duty Evaluations

Supervisors may refer a worker to OH for a fitness-for-duty (FFD) evaluation if they are concerned about

- 1 employee-identified medical problems affecting performance or behavior,
- 2 safety or reliability in the workplace,
- 3 substance misuse problems, or
- 4 excessive sick leave.

If your supervisor refers you for an FFD medical evaluation, you must comply. P102-3, Medical Evaluation for Work, describes the process in more detail. See the "Your Medical Records" section later in this training for information on how your medical records privacy is protected.

### 3.4 Termination Evaluations

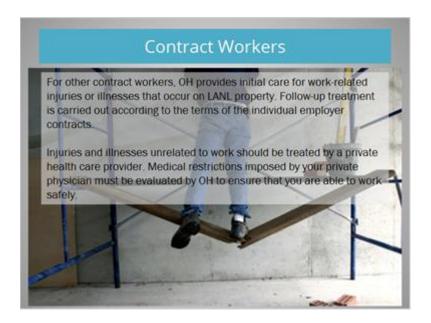
## Termination Evaluations

### **Termination Evaluations**

Before leaving the Laboratory, an employee is offered an exit medical evaluation. Employees who decline the offered medical exam must do so in writing.



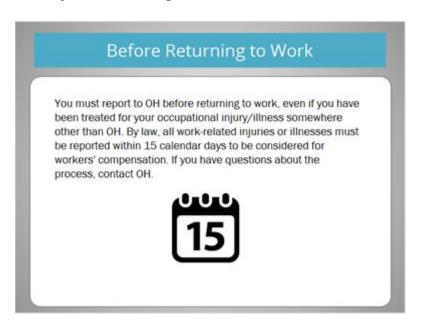
### 3.5 Contract Workers



### 3.6 When to call 911?



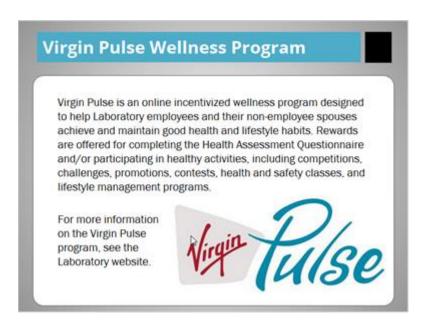
### 3.7 Before Returning to Work



## 3.8 Protection against Reproductive Health Hazards



### 3.9 Virgin Pulse Wellness Program



### 3.10 Regulating Agencies



### 3.11 Industrial Hygienists and Safety Engineers

Industrial Hygienists and Safety Engineers

# Industrial hygienists and safety engineers at LANL provide support in the following areas:

- · identifying and evaluating health and safety hazards.
- · monitoring workplaces for hazards,
- · performing workplace inspections,
- · reviewing Integrated Work Documents (IWDs),
- · reviewing engineering designs,
- recommending and evaluating the effectiveness of hazard controls.
- · providing training assistance, and
- keeping managers and workers informed about industrial hygiene and safety standards.

### 3.12 Industrial Hygiene Programs

# 

## 3.13 Industrial Safety Programs

### **Industrial Safety Programs** If any of these programs construction safety · cranes, hoists, lifting devices and apply to your work area or activities, you must be rigging safety familiar with their LANL-· electrical safety specific requirements. · explosives safety Depending on your specific · fall protection work activities and area, forklift safety you may be required to · glovebox safety attend one or more safety laser safety courses. · lockout/tagout · machine safeguarding · non-security firearms safety · pressure safety and cryogens · vehicle and pedestrian safety

# **GET-security-module6**

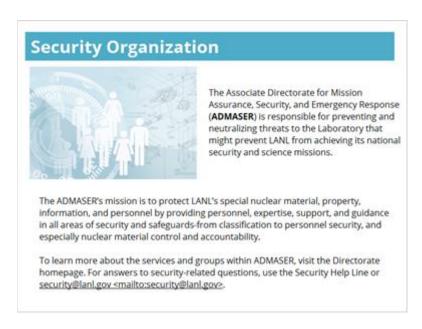
# 1. Working Securely

# 1.1 Working Securely



**Notes:** 

### 1.2 Security Organization



### **Notes:**

### 1.3 Lab Protective Force



### top pic (Slide Layer)

## **Laboratory Protective Force**





One of the most visible elements of the ADMASER Security Division is a Protective Force (PF) that provides security services to the Laboratory. Hired as a subcontractor organization, the PF officers provide physical security for facilities, fixed and roving security patrols, access control and vehicle inspections, and security emergency response. PF officers can be seen wearing military-style uniforms and tactical vests, operating military vehicles, and carrying a wide variety of equipment, including radios and weapons. All PF officers are authorized to carry cell phones, pagers, and tactical radios.

## bottom pic (Slide Layer)

## **Laboratory Protective Force**





All LANL workers are required to cooperate with PF officers on security matters and participate fully in the Laboratory's security programs. When a PF officer directs a Laboratory worker to perform an action (especially in emergency situations), the LANL employee must follow directions.

Arguing, using inappropriate language and offensive hand gestures, resisting, or interfering with officers will not be tolerated.

Officers are trained to be courteous, but also to take control of any situation. Officers are not obligated to respond to questions, offer explanations, or justify their instructions.

For more information, go to LANL's homepage and search under Security.

## warning (Slide Layer)



## 1.4 Your Security Badge



**Notes:** 

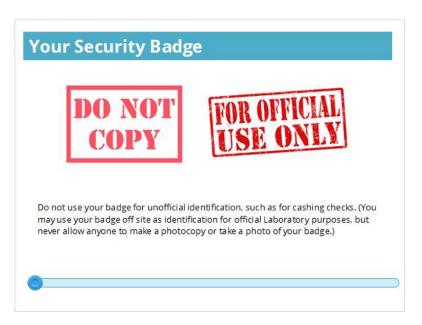
## **Untitled Layer 1 (Slide Layer)**



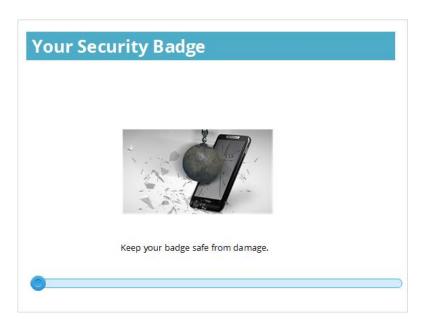
## **Untitled Layer 2 (Slide Layer)**



## **Untitled Layer 3 (Slide Layer)**



## **Untitled Layer 4 (Slide Layer)**



### **Untitled Layer 5 (Slide Layer)**



### warning (Slide Layer)



### 1.5 Lost or Stolen Security Badges

## **Lost or Stolen Security Badges**



If your badge is lost during work hours, report it in person to the Badge Office. If your badge has been stolen, report it immediately to the Badge Office, your deployed security officer, or the Security Incident Team. Badges reported as lost or stolen will cease working in any Laboratory badge readers, even if found. This is a permanent status change so that the badge reported lost or stolen can never be reactivated.

If you forget your badge, you may receive a temporary badge after presenting proper identification at the Badge Office. A temporary badge will be issued only twice in a 12-month period. Your manager's approval is required if an additional temporary badge is needed.

## 1.6 Types of Security Badges

# **Types of Security Badges**

A limited number of security badge types are in use at the Laboratory. These include:

- DOE / United States federal security badges
- 2. LANL site-specific badges
- 3. Temporary badges
- 4. Uncleared foreign national badges
- 5. Visitor badges

### 1.7 Federal Security Badges

### **Federal Security Badges**

A United States federal security badge, called the Homeland Security Presidential Directive-12 -compliant or HSPD-12 badge, is issued to LANL employees with an L or Q clearance. The badge incorporates an integrated circuit chip, which stores limited personal information about the badge holder, such as a personal identification number (PIN), electronic fingerprints, and a digital image.

The federal security badge is issued with an electromagnetically opaque sleeve that protects the badge. It also protects the badge's integrated circuit chip from being pinged or accessed without proper authorization. Unless you are showing the badge to a PF officer or swiping it through a badge reader, chipped badges must be kept in the supplied protective sleeve at all times.

You should take the following measures to protect your HSPD-12 badge:

- Do not mark on, punch holes in, or bend your badge.
- 2 Do not scratch the magnetic strip on the badge.
- 3 Do not use your badge as a window scraper or any other kind of scraper.
- 4 Avoid subjecting the badge to excessive heat (e.g., clothes dryer) or direct sunlight (e.g., car dashboards).
- 5 Keep the badge away from stereo equipment, speakers, and other sources of magnetic energy.

### 1.8 Using Your Badge to Get Around

## **Using Your Badge to Get Around**

Much of what you may have already seen at the Laboratory has likely been in the General Access Areas (GAAs). There are no identification or badge requirements to enter a GAA, and privately owned vehicles are permitted to enter GAAs, unless otherwise prohibited by site-specific access requirements.

#### **Property Protection Areas**

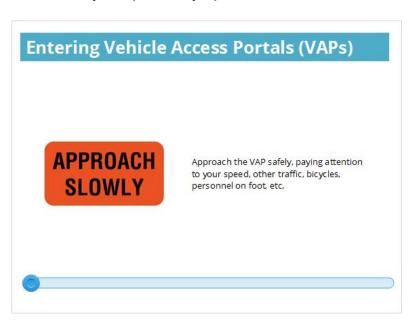
Established to protect workers, buildings, facilities, and property, Property Protection Areas (PPAs) are areas where access is controlled through the use of physical barriers, access control systems, and/or protective personnel. For unescorted access to a PPA, you must possess a DOE security badge or LANL site-specific badge. Visitors who do not possess either badge may be issued a LANL Visitor badge for access. Privately owned vehicles may be authorized to enter PPAs for official purposes, unless restricted by sitespecific access requirements.

Although GAAs are accessible to all workers and the general public and PPAs require a DOE security badge or LANL site-specific badge, access to other areas of LANL, called security areas, is limited by your DOE clearance level.

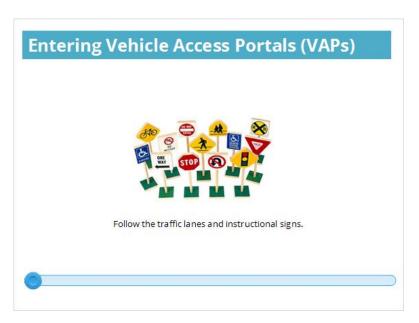
## 1.9 Entering Vehicle Access Portals (VAPs)



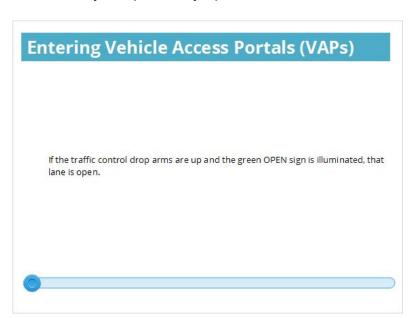
### **Untitled Layer 1 (Slide Layer)**



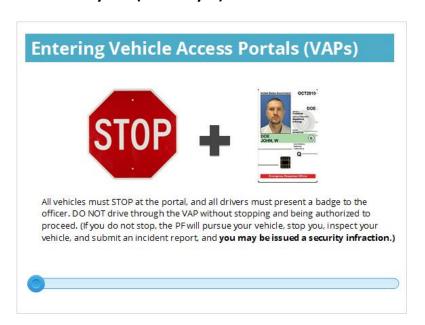
## **Untitled Layer 2 (Slide Layer)**



## **Untitled Layer 3 (Slide Layer)**



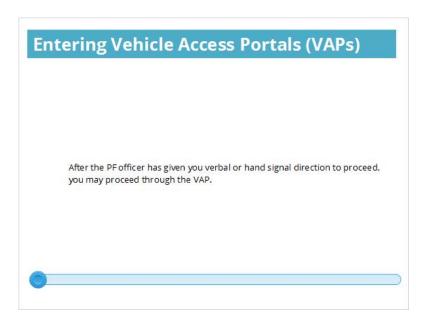
### **Untitled Layer 4 (Slide Layer)**



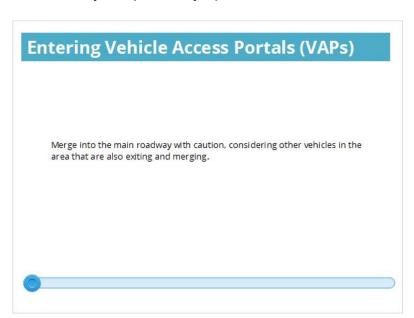
### **Untitled Layer 5 (Slide Layer)**



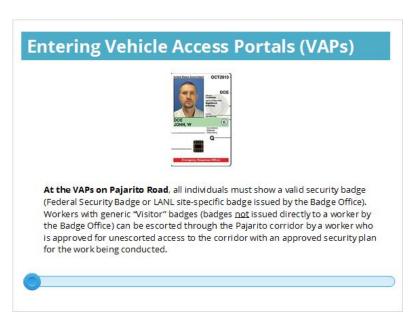
### **Untitled Layer 6 (Slide Layer)**



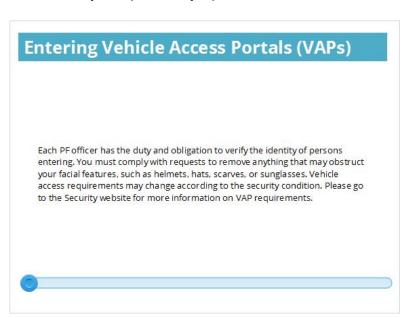
## **Untitled Layer 7 (Slide Layer)**



## **Untitled Layer 8 (Slide Layer)**



### **Untitled Layer 9 (Slide Layer)**



## warning (Slide Layer)



# 1.10 Personal and Vehicle Inspections

# **Personal and Vehicle Inspections**

While on Laboratory property, you are subject to random personal and vehicle inspections by PF personnel. You may also receive unannounced inspections of your work area by bomb-detecting dogs.

## Prohibited Articles on Laboratory-Owned or Leased Property

Firearms, dangerous weapons, explosives, incendiary devices, and other instruments or materials likely to cause personal injury or property damage are not allowed on Laboratory property or inside Laboratory-operated facilities, unless they are government property or are specifically authorized. Also not allowed are alcohol, illegal drugs, and any other articles prohibited by law.

Photography is not permitted on Laboratory-owned or leased property without a specific permit.

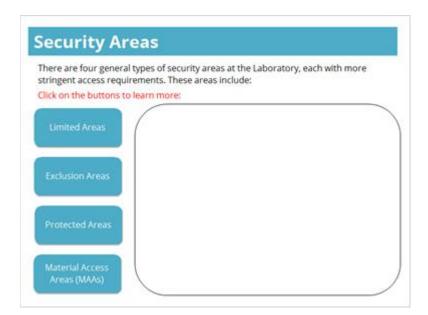
The use of Bluetooth wireless technology is also prohibited on LANL property. LANL has implemented wireless networks that are available in some locations. Contact your OCSR to find out if wireless service is available in your work location.

# 1.11 Security Clearances

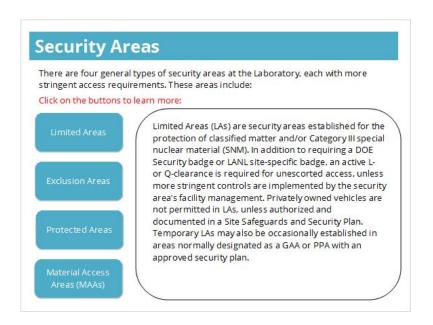
# **Security Clearances**

Should your job require access security areas at the Laboratory, you may need to obtain a DOE security clearance. DOE uses three levels of security clearances: Uncleared (U), Limited (L), and Q. The granting of a clearance is an access authorization, which allows you to enter certain security areas, but does not immediately give you permission to access classified information. Should your job require access to classified information, you will need security clearance access authorizations based on your "need to know." We'll talk more about this concept later in this module.

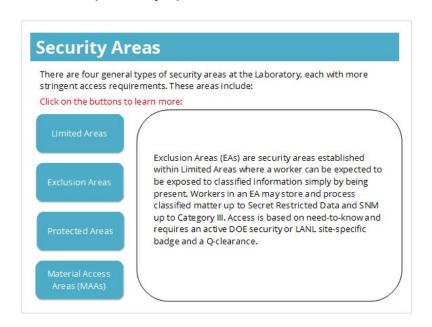
# 1.12 Security Areas



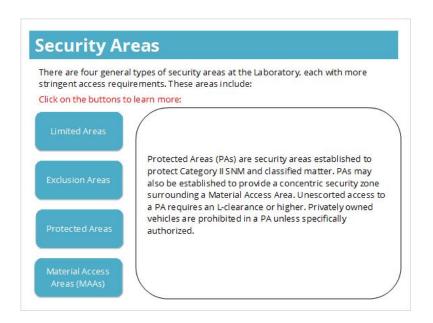
## limited (Slide Layer)



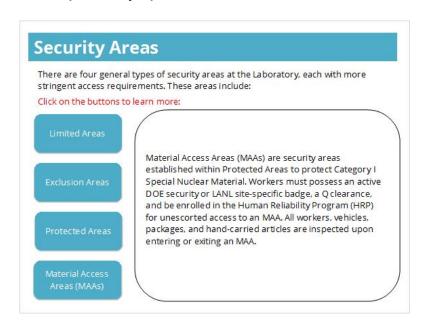
## exclusion (Slide Layer)



## protected (Slide Layer)



## **MAAs (Slide Layer)**



## 1.13 Entering and Leaving Security Areas

# **Entering and Leaving Security Areas**

When entering a staffed security post, hand your badge to the Protective Force (PF) officer. You will need to use a badge reader and hand geometry reader (commonly known as a palm reader) or PIN to enter security areas. Property Protection Areas use badge readers only.

In some security areas, you may need to pass through a metal detector. Your purse, coat, briefcase, lunchbox, and other packages may be checked by an x-ray machine or a PF officer.

If a badge reader at an entrance to a security area does not read your badge, it may mean that your security training has expired or another badge/clearance issue needs to be resolved before access is reinstated. Remember, you must keep your security training up to date.

Remember that "piggybacking" (allowing another individual with the required clearance, appropriate badge, and need-to-know to access a security area without using automated access controls, such as badge or palm readers) and "tailgating" (allowing another individual to enter a facility behind you after you swipe your badge or following someone into a security area without swiping your badge) are not allowed. Every worker must use his or her own badge to gain access to a security area.

# 1.14 Controlled Articles in Security Areas

# **Controlled Articles in Security Areas**

Personal cell phones are allowed only in General Access Areas and Property Protection Areas (PPAs). Devices that can store, read, write, record, or transmit data are not allowed in security areas, unless they are government property or are specifically authorized. These articles include:

- recording equipment (including audio, video, optical, and data-recording devices);
- · cameras (film, digital, video, or still);
- non-government-owned portable electronic devices (including computers, personal digital assistants, iPods, iPads, USB drives, flash memory, medical devices, and ankle monitors);
- · cell phones, two-way pagers, and radio-transmitting equipment; and
- · wireless devices.

## 1.15 Technical Surveillance Countermeasures

# **Technical Surveillance Countermeasures**

Technical surveillance countermeasures (TSCM) is an electronic countermeasures program used to detect and deter espionage, protect against inadvertent disclosure of classified or sensitive information, and protect your privacy at work.

If you take LANL electronic equipment when traveling to foreign countries, you should consult with the TSCM Team before and after travel. All LANL electronics taken to sensitive foreign countries must be examined by the TSCM Team upon your return from travel. If you suspect that you are the target of a technical surveillance device, contact (preferably in person) the TSCM Team from a location away from the suspected targeted area. When requesting assistance, do not indicate the nature of the situation; simply ask to speak to a member of the TSCM Team.

# 1.16 Electronic Devices Used for Surveillance

# **Electronic Devices Used for Surveillance**

The following electronic devices pose a security risk if intentionally or unintentionally used as surveillance equipment:

- · cell phones,
- · radio frequency transmitters,
- · pagers,
- · wireless devices,
- · personal digital assistants (PDAs),
- · still and video cameras, and
- · other electronic devices.

## 1.17 Electronic Devices Used for Surveillance

# **Electronic Devices Used for Surveillance**

#### Why Cellular Phones?

Unlike a traditional telephone, it is not always apparent when a cell phone is off.

Because of this, cell phones can pose a threat to security. This threat is posed in four significant ways:

- 1 Cell phones can be carried to different locations without much awareness.
- 2 A cell phone maintains contact with its cellular service provider, except when the battery is removed.
- 3 A cell phone can be remotely activated without the user's knowledge.
- 4 Cell phone technology now integrates PDAs, cameras, internet access, audio/video recording, and other capabilities controlled in secure areas.

If your job requires using a cell phone, the Laboratory will issue you one. Blackberry and iPhone smartphones issued and configured by LANL and other government agencies with reciprocity agreements are allowed for conditional use in limited areas. If you are issued a government Blackberry or iPhone, you will receive additional training on the rules of use.

## 1.18 Temporary Storage of Electronic Items

# **Temporary Storage of Electronic Items**

Before entering a secure area, you must turn off your LANL-issued cell phone (or twoway pager) and remove its battery. Privately owned cell phones, two-way pagers, and other transmitters are prohibited in security areas without prior Information Security approval.

Many areas have small lockers set up outside security area access points for securely storing personal electronic devices such as cell phones. Please ask at your facility about locker availability and the requirements for using them.

# 1.19 Escorting Uncleared Visitors

# **Escorting Uncleared Visitors**

If you have a security clearance, you may need to escort an uncleared US citizen visitor into a security area. To do this, you must

- 1. take appropriate training before escorting;
- 2. make sure that uncleared Escort Required badges are issued and returned;
- brief visitors of their responsibilities while in a security area, including those responsibilities regarding prohibited and controlled articles;
- 4. log visitors in and out of security areas;
- ensure that uncleared visitors do not see information and/or overhear discussions that are classified; and
- keep uncleared visitors in sight at all times until you are leaving security areas or turning the visitors over to another authorized escort.

Escorting uncleared foreign nationals into security areas is rarely allowed and must be handled by the Foreign Visits and Assignments Team.

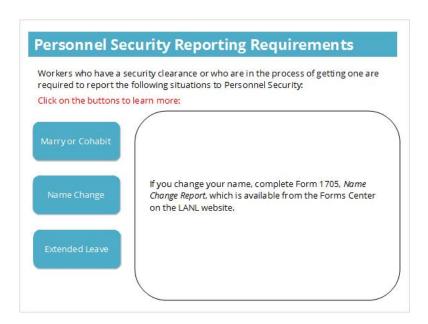
# 1.20 Personnel Security Reporting Requirements



# marry (Slide Layer)



# name change (Slide Layer)



## extended (Slide Layer)



# 1.21 Personnel Security Reporting Requirements

## **Personnel Security Reporting Requirements**

You must notify Personnel Security within one working day if any of the following occur:

- · you have taken legal action for a name change;
- · citizenship changes;
- you use any illegal drug, or a legal drug is used in a manner that deviates from approved medical direction;
- you have any arrests, criminal charges (including charges that are dismissed), citations, tickets, summons or detentions are incurred by federal, state, or other law enforcement authorities for violations of law within or outside the US. Traffic violations for which a fine of up to \$300 was imposed need not be reported, unless the violation was alcohol or drug related;
- you have an immediate family member who is or will be assuming residence in a sensitive country, as listed in on the LANL website;
- · you have been treated or hospitalized for drug or alcohol abuse;
- you have been employed by, been a representative of, or have other business-related associations with a foreign or foreign-owner interest or non-US citizen or other individual who is both a US citizen and a citizen of a foreign country;
- · you have filed for bankruptcy that is personal or business related; and/or
- · your wages are garnished.

Contact Personnel Security or go to their website for guidance on reporting incidents.

## 1.22 Reporting Security Incidents

## Reporting Security Incidents

You are required to immediately report any known or potential security incidents to the Security Incident Team (SIT) and your Responsible Line Manager (RLM). Reports must be made to a person and cannot be e-mailed or left on voicemail. Ensure that potentially classified information is discussed only via secure means.

#### Incidents of Security Concern

Security incidents can include:

- · classified information being processed on an unclassified computer;
- · the incorrect transmission or reproduction of classified matter;
- · the unauthorized or inadvertent disclosure of classified matter;
- · unsecured/unattended classified matter and/or container;
- · classified matter that is lost, stolen, or unaccounted for;
- · attempts to remove, divert, or obtain unauthorized access to classified matter;
- · unauthorized access to classified or unclassified information systems/networks;
- · any breach or attempted breach of a security area, access controls, or security system;
- · the introduction of prohibited/controlled articles into a security area;
- the incorrect use of a security badge; sabotage of LANL facilities;
- · known or suspected cases of technical surveillance;
- · and any suspicious or criminal activity.

You must also report the theft or misuse of government property. To do so, you may notify your supervisor, your division's security officer, LANL's Investigative Services Team (LIST), or the Employee Concerns Program (ECP) to report issues of waste, fraud, or abuse.

## 1.23 Substance Abuse Policy

## **Substance Abuse Policy**

The Laboratory is committed to

- · providing a safe work environment,
- · ensuring public safety, and
- · protecting its national security mission.

In support of this commitment, the Laboratory maintains a drug-free workplace. Substance abuse affects worker performance, conduct, and/or reliability and can interfere with the Laboratory mission. Substance abuse includes the use of illegal drugs and the misuse of alcohol or over-the-counter and prescription drugs.

#### What This Means to You

- · LANL workers are subject to random drug testing.
- · You may not work while under the influence of alcohol or drugs.
- · You may not possess, sell, transfer, or use illegal drugs on Laboratory-operated property.
- You may use your own legally prescribed drugs, as long as they do not affect your work. (If you
  are taking an over-the-counter or prescription drug that affects your ability to perform your
  required work, you should either notify your supervisor directly or notify OH.)
- · You may not bring or use alcohol on Laboratory-operated property.
- · You may be disciplined, up to and including termination, for abusing alcohol or drugs.
- Substance-abuse counseling is available through OH. See the Occupational Health section of this
  handbook for information about the EAP.

## 1.24 Nuclear Material Control and Accountability

## **Nuclear Material Control and Accountability**

Many countries, including the U.S., have nuclear material control and accountability (NMCA) programs to control access to and use of nuclear materials.

The DOE and Laboratory NMCA programs are designed to detect and deter the theft and diversion of accountable nuclear materials. While your job may not involve NMCA activities, the Laboratory is required to comply with DOE Order requirements governing the use of these materials. These requirements include the completion of appropriate and essential documentation, training of personnel authorized to work with nuclear materials, and periodic assessments of compliance with applicable requirements and regulations. For more information, see PD205, Nuclear Safeguards, contact the Nuclear Material Control and Accountability group, or visit their website for further guidance.

# 1.25 Classified Information

### Classified Information

Classification is the process of identifying Information that would damage national security if it were released to unauthorized persons. Classification allows for the appropriate protection of information. When classified information is improperly disclosed, some degree of damage to national security occurs on a range from serious to exceptionally grave. The extent of this damage potential is used to assign the levels of classification.

Classified information is given a level, as follows:

- top secret (TS),
- secret or (S),
- · confidential (C).

Classified information is also categorized as

- restricted data (RD),
- · formerly restricted data (FRD),
- · Transclassified foreign nuclear information (TFNI), or
- · national security information (NSI).

By combining an information level with an information category, a classification can be assigned to document, such as top secret restricted data (TSRD) or confidential national security information (CNSI). Once classified, these documents are uniquely and prominently marked as such.

## 1.26 Accessing Classified Information

## Accessing Classified Information

Should your job require access to classified information, you will need the appropriate security clearance and a "need to know." Need to know is not simply an expedience, but the determination that a prospective recipient requires access to specific classified information to perform or assist in a lawful and authorized government function. Before you are allowed access to classified information, you will receive more information and training. At this point, however, here are just a few things to remember.

Classified matter should never be left unattended or unprotected. If you find classified matter in an inappropriate area, notify your RLM or the SIT immediately. However, if your life or safety is in jeopardy and your building is being evacuated, a safe evacuation is your first priority. In this case, you should:

- Leave any classified matter, computer terminals, storage repositories, and special nuclear material as is, and evacuate the area immediately.
- · Report any materials or repositories left unattended to your RLM and the SIT.
- When the area is reoccupied, examine and account for the materials and repositories immediately.

# 1.27 Controlled Unclassified Information (CUI)

## **Controlled Unclassified Information (CUI)**

Some information is controlled, even though it is not classified. Some types are

- · unclassified controlled nuclear information (UCNI);
- · export-controlled information (ECI);
- official use only (OUO), which includes personal/privacy information, company proprietary information, and information required by law to be withheld from public release; and
- personally identifiable information (PII), such as social security numbers, date and place of birth, and medical and employment records.

CUI, if released, could help a terrorist gain access to nuclear materials, compromise technology with military or security applications, or compromise administrative or personnel information. Many categories of CUI, when in electronic form, require data encryption when sent or carried offsite. Any known or suspected loss of PII must be reported immediately.

#### Your CUI Responsibilities

If you work with CUI, your RLM will instruct you on the proper procedures for handling it. If you find CUI in an inappropriate area, protect the information and notify your RLM immediately.

## 1.28 Information Security

## Information Security

The goal of the information security program is to protect the confidentiality, integrity, and availability of information. Also referred to as cyber security, information security involves

- · information generated, processed, transmitted and/or stored on the system;
- · hardware the physical parts of the computer itself;
- · software the operating systems and programs;
- media devices that store information and programs, such as magnetic, optical, or solid state;
   and
- · networks multiple computers interconnected over various communications lines.

A cyber security incident is any event or threat that affects normal operations of or has an undesirable impact on a computer system and/or computing facility, such as attempted access to computing resources without authorization or contamination of an unclassified system with classified information. Incidents may also include using a computer system in connection with criminal acts, unsanctioned work, or fraud and abuse.

## 1.29 Information Security Reminders

## **Information Security Reminders**

As a Laboratory General User, you are required to participate actively in information security by following all policies and procedures set forth by DOE and the Laboratory. When you use a Laboratory system, you agree to the terms and conditions of use, including the possibility that your system may be audited, monitored, copied, confiscated, or inspected. Here are some tips for good information security:

- Use your computer system(s) for official purposes while following specific work area rules.
- · Protect your system(s) from unauthorized access.
- Follow the Laboratory password policy. Use complex passwords, and never share your password or PIN.
- Understand and implement required information security protections and mitigations: use antimalware protection and perform regular backups of information of institutional interest.
- Install only information-architecture-approved hardware and software.
- Conduct everyday computing activities logging into your system, reading e-mail or web, or creating a document - using your default General User authority.
- The Laboratory protects personally identifiable information (PII). Immediately report the loss of PII to the Security Incident Team (SIT).
- Be aware of threats to information security, such as insiders and phishing.
- Do not download attachments or click on links in suspicious e-mails, which can lead to malware or ransomware being installed on your computer.
- · Promptly report any suspected information security incidents to the SIT.
- · Do not insert a non-government thumb drive into your workstation.

## 1.30 Counterintelligence

## Counterintelligence

The mission of the Office of Counterintelligence (OCI) is to protect LANL and its employees from efforts by foreign intelligence services and terrorist groups to acquire sensitive and classified information. OCI is responsible for these programs:

- 1 The Counterintelligence (CI) Program opposes efforts by foreign intelligence services and terrorist groups that try to recruit employees who have access to classified or sensitive information.
- 2 Foreign Visits and Assignments (FV&A) facilitates foreign national visits to the Laboratory. Non-US citizens are not permitted on LANL property without prior approval. For more information, contact the FV&A office.
- 3 Immigration Services facilitates the employment of international personnel and scientific collaborations.

Operations Security (OPSEC) is a Laboratory-wide program to ensure that sensitive information is protected from inadvertent and unauthorized disclosure.

# 1.31 Counterintelligence Threats and Methods

## **Counterintelligence Threats and Methods**

As a LANL employee, you could be the target of illegal or unauthorized attempts to gain access to classified or sensitive information, technology, or special nuclear material and must report any attempts to breach this security. The hostile intelligence threat is twofold:

- · information obtained about classified programs can be used to damage national security and
- · Illegally obtained research and development technology could result in significant loss to the US.

Although intelligence agencies use many collection methods, the two methods in particular that should concern you if you work with classified or sensitive programs at the Laboratory are trained information collectors trying to elicit information from you and foreign intelligence agents trying to recruit workers in facilities or programs of interest to them.

Remember: you must report all contacts you have-on or off the job-with individuals of any nationality who attempt to obtain illegal or unauthorized access to classified or sensitive information or who may be targeting you for actual or attempted exploitation by a foreign country.

#### **Travel to Sensitive Countries**

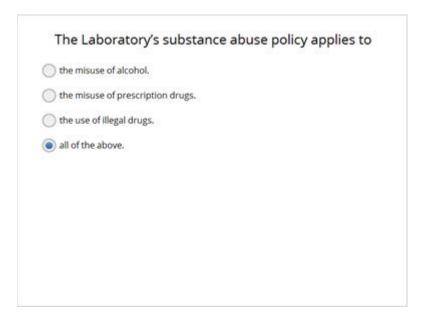
Any LANL workers who are planning to travel to a sensitive country for pleasure or for business must contact OCI 30 days before they leave. A current list of sensitive countries is available online from the Laboratory's homepage under OCI.

## 1.32 What Lies Ahead

# What Lies Ahead In the next module, we will look at some of the things you should know about fire protection at the Laboratory, emergency operations, procedures for reporting emergencies, and what your role and responsibilities are as a LANL worker in emergency situations. But first, a knowledge check.

# 1.33 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	the misuse of alcohol.

	the misuse of prescription drugs.
	the use of illegal drugs.
Х	all of the above.

### Feedback when correct:

That's right! You selected the correct response.

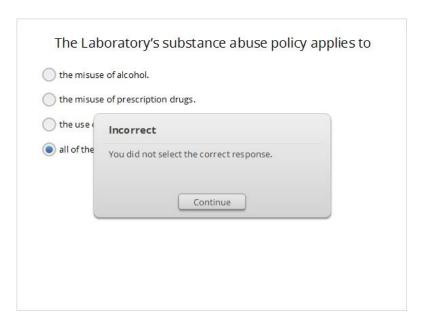
## Feedback when incorrect:

You did not select the correct response.

# **Correct (Slide Layer)**

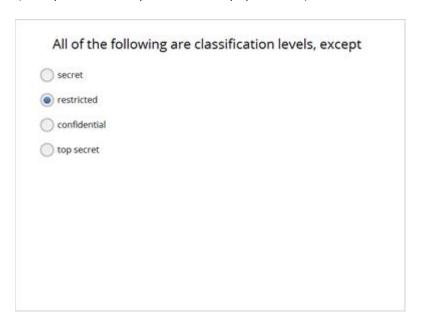


# **Incorrect (Slide Layer)**



# 1.34 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	secret

Х	restricted
	confidential
	top secret

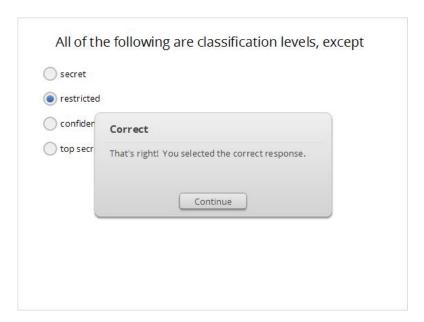
## Feedback when correct:

That's right! You selected the correct response.

## Feedback when incorrect:

You did not select the correct response.

# **Correct (Slide Layer)**

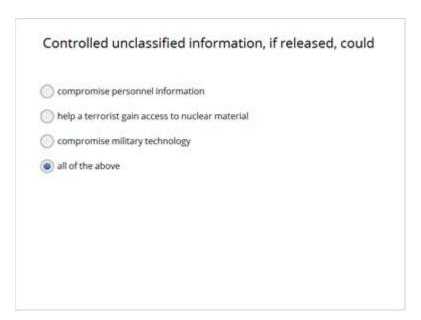


# **Incorrect (Slide Layer)**



# 1.35 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	compromise personnel information

	help a terrorist gain access to nuclear material
	compromise military technology
Х	all of the above

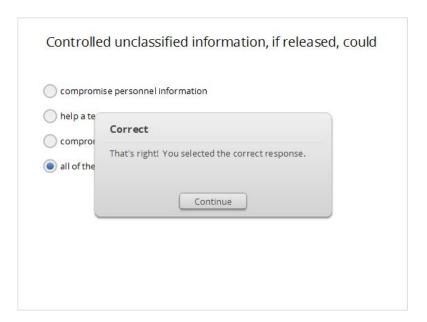
## Feedback when correct:

That's right! You selected the correct response.

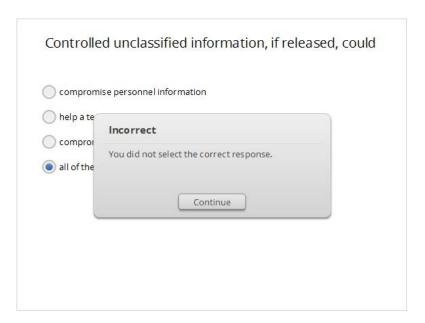
## Feedback when incorrect:

You did not select the correct response.

# **Correct (Slide Layer)**

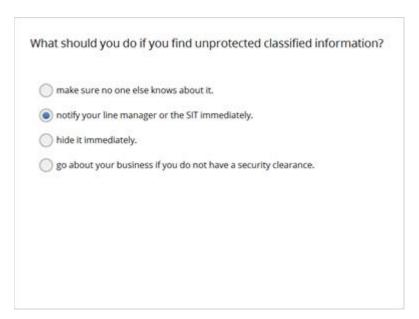


# **Incorrect (Slide Layer)**



# 1.36 Knowledge Check

(Multiple Choice, 10 points, 1 attempt permitted)



Correct	Choice
	make sure no one else knows about it.

X	notify your line manager or the SIT immediately.
	hide it immediately.
	go about your business if you do not have a security clearance.

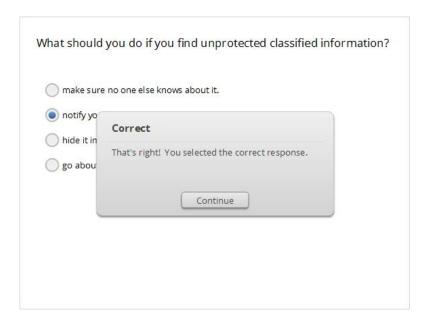
## Feedback when correct:

That's right! You selected the correct response.

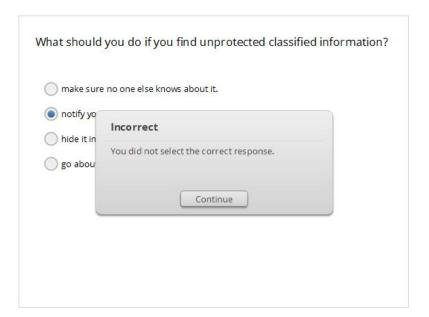
## Feedback when incorrect:

You did not select the correct response.

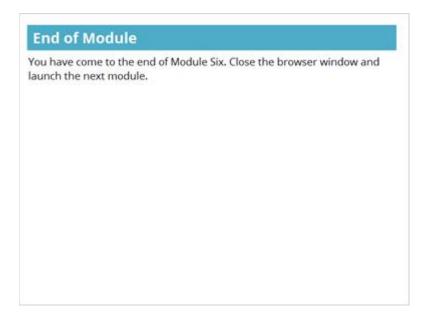
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.37 End of Module



**Notes:** 



# **GET-fire emergency ops-module7**

# 1. Section 1 - Fire Prevention

## 1.1 Fire Protection



**Notes:** 

## 1.2 Fire Protection

#### Section One - Fire Prevention

## Fire Protection

Fire is the third leading cause of accidental death in the US. More than 70 workplace fires occur every day, yet most people fail to prepare for the possibility of a life-threatening fire. LANL is required to comply with the National Fire Protection Association's (NFPA's) codes and standards. Statistics have shown that complying with these codes and standards has greatly reduced the loss of life and property to fire incidents.

#### Your First Responsibility is to Protect Yourself

Your first responsibility in any fire is to protect yourself. To do that, you need to know the emergency procedures for the safe and rapid evacuation of your building and the Laboratory, your building's evacuation routes and exit locations, and the location of manual alarm pull boxes and fire extinguishers in your building. Be sure you know the sound of alarms in your facility and the location of your building's assembly area.

Notes:

# 1.3 Wildfires

## Wildfires

Los Alamos National Laboratory is surrounded by a mostly Ponderosa pine forest that is frequently vulnerable to fire during dry, windy seasons. Extreme wildland fire conditions can arrive as early as February, depending on winter precipitation, snow pack levels, spring-like weather and winds, and forest conditions.

As a result, the Laboratory has had several dangerous and costly wildfires threaten its property in recent memory. In May 2000, the Cerro Grande fire burned 48,000 acres and destroyed the homes of more than 400 Los Alamos families, causing total damages of more the \$1 billion. More recently, the Las Conchas fire of June 2011 destroyed 150,000 acres of forest, burned 63 homes southwest of Los Alamos County, and threatened Laboratory property and the town of Cochiti and the Santa Clara Pueblo for more than a month before finally being extinguished.

Although each of these, and numerous other smaller wildfires, had different ignition sources, they serve as a constant reminder of the need for fire protection at work and at home. At home, be especially careful when throwing away any lighted materials, such as matches, cigarettes, or ashes. At work, report any fire hazards, such as trash piles and overgrown brush near a building, to your facility manager. Use suitable safety devices, such as spark suppressors, on vehicles and equipment to reduce the potential for emitting sparks, embers, or hot materials that might ignite a fire.

## 1.4 Things to do Before a Fire

# Things to do Before a Fire

The best way to prepare for a fire is to make sure the conditions for fires are minimalized. Some of the actions you can take include the following:

- Helping maintain proper housekeeping and the management of combustible materials accumulation. These actions include making sure that a building's stairwells, exits, and entrances are not blocked, restricted or obstructed by potentially combustible materials and that access to safety equipment (e.g., fire alarms, fire suppression equipment, safety showers, and portable fire extinguishers) is not obstructed.
- Following Lab-wide and/or facility-specific programs and procedures that minimize the risk from fire in the use, handling and storage of combustible, flammable, explosive, radioactive, and other hazardous material.

# 1.5 Things to do Before a Fire

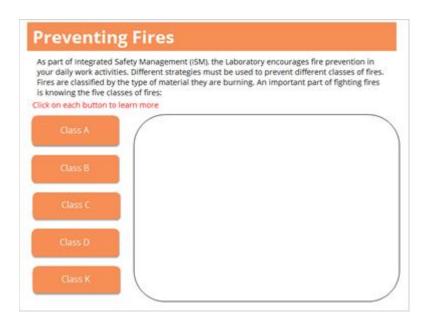
# Things to do Before a Fire

The best way to prepare for a fire is to make sure the conditions for fires are minimalized. Some of the actions you can take include the following:

- Be aware of "Red Flag" days at the Laboratory. The United States Forest Service has
  developed criteria for Red Flag conditions that assess. High to Extreme fire dangers
  against critical weather conditions, including the potential for a significant increase
  in surface winds (sustained 20 miles per hour with stronger gusts possible), dry
  thunderstorm outbreaks; significant decreases in relative humidity or a significant
  increase in temperature; and the first episode of thunderstorms after a hot, dry
  period.
- Under Red Flag conditions, certain work activities at the Laboratory may be restricted. Other times, dry forest conditions may require that driving or hiking off established LANL roadways be restricted to mission essential, ES&H and/or regulatory essential activities.

FIRE DANGER RATING A

# 1.6 Preventing Fires



# A (Slide Layer)



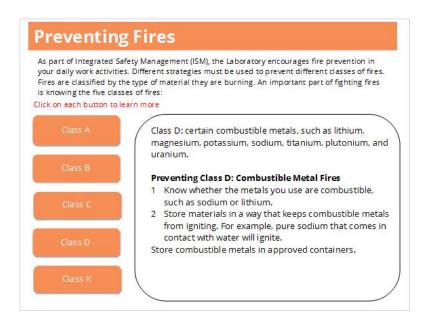
## **B** (Slide Layer)



## C (Slide Layer)



## D (Slide Layer)



# K (Slide Layer)



## 1.7 Steps to Follow in the Event of a Fire

# Steps to Follow in the Event of a Fire You should know the steps to follow if a fire occurs in your building or laboratory. Pull the nearest manual fire alarm, usually found near doors that exit outside. Call 911. Always provide the 911 dispatcher with your Technical Area (TA) and building number to verify the location. Evacuate the building, and report to your assembly area. If you are at risk in trying to get to an alarm pull-box or phone to call 911, evacuate first and then find a safe location to call 911 and (if possible) pull the alarm. You must not attempt to extinguish a fire unless the fire is small and contained. you have the correct fire extinguisher, you can avoid breathing smoke, and you have a clear escape route to your back.

## 1.8 Extinguishing Fire

# **Extinguishing Fire**

In most cases, the Laboratory requires a building evacuation in the event of a fire. However, a worker who is familiar with or trained in the use of portable fire extinguishers may choose to, but is not required to attempt to extinguish a small fire.

The information in this section will make you familiar with portable fire extinguishers and their use. If you are assigned a job duty that requires you to use a fire extinguisher, you will receive training in the use of portable fire extinguishers, including hands-on instruction.

The appropriate type of fire extinguisher must be used to fight a fire. For example, a Class-A fire extinguisher can be used to fight only a Class-A fire. A Class-ABC fire extinguisher can be used on an A, B, or C fire.

Although lithium and lithium hydride are Class-D combustible metals, only portable fire extinguishers specifically labeled Lith-X or graphite must be used to put out fires involving these metals. ONLY use Class-D fire extinguishers labeled for the appropriate metal.

Class-K fire extinguishers are specifically formulated to be effective for cooking-oil fires and are to be used as a supplement for kitchen fire suppression systems.

## 1.9 Using a Portable Fire Extinguisher



## 1.10 Using a Portable Fire Extinguisher



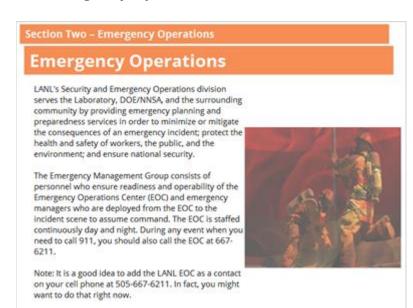
# 1.11 If You Are Trapped in a Burning Building

# If You Are Trapped in a Burning Building

If you are trapped in a burning building, close all doors and seal all cracks around doors and vents. If possible, call 911 and report exactly where you are. Open a window only if you can escape through it or if you are having difficulty breathing. But be aware that an open window can create a draft and draw smoke and fire toward it.

# 2. Section 2 - Emergency Operations

## 2.1 Emergency Operations



# 2.2 Emergency Operations

Section Two – Emergency Operations

## **Emergency Operations**

The Emergency Response Group provides a range of emergency services to the Laboratory and community and comprises two highly trained specialty teams. The Hazardous Devices Team is the bomb squad for DOE property that investigates and, when necessary, disposes of unclaimed, unattended, or untagged packages and military ordnance. The Hazardous Materials (HAZMAT) Team responds to hazardous materials emergencies.

Note: Make sure any backpacks, lunch bags, briefcases, or other bags are tagged with your contact information. You will learn more about how and why to do this later in this course.

The Laboratory also maintains a larger, multiagency Emergency Response Organization that is made up of LANL managers and Subject Matter Experts, Los Alamos County organizations, and state and federal agencies.

# 2.3 Continuity of Operations (COOP)

# **Continuity of Operations (COOP)**

The Laboratory's COOP Program ensures the performance of mission-essential functions in emergencies that may disrupt normal operations. As a LANL worker, your responsibilities include using established methods, such as phone trees and group e-mail, to report your status to your normal chain of command. If you are deemed to be essential personnel, who are required to work in emergencies, you will receive additional information and training.

# 2.4 Building Emergency Plans and Maps

# **Building Emergency Plans and Maps**

LANL's Building Emergency Plan Program, through the development and implementation of building emergency plans and procedures, assists workers in knowing what to do in the event of an emergency.

Each building or work area has a building emergency plan, which provides emergency procedure information for that location, including the building's main hazards; the emergency procedures for evacuation and evacuation procedures; and the location of manual alarm pull-boxes and fire extinguishers. In your new work area, you should

- · find and review the evacuation maps posted in your work area,
- · review the site evacuation map routes for your work location,
- · find and review the building emergency plan for your work area,
- · know your building designation and TA, and
- talk to your supervisor about what to do in an emergency; ask questions to ensure you fully understand.

Posted throughout all Laboratory buildings, building evacuation map show evacuation routes and exits, as well as the location of fire alarms, emergency equipment (such as fire extinguishers and first aid kits), and assembly areas (where to gather outside after evacuating the building).

ROUTE

# 2.5 Emergency Training, Drills, and Exercises

# **Emergency Training, Drills, and Exercises**

The Laboratory is required to provide initial training and periodic drills/exercises to all workers who may be required to take protective actions. You will practice evacuation and assembly in your work area. You may also participate in planned exercises to test your FOD's emergency response capabilities. *Remember*, no set of instructions can cover every type of emergency situation. Common sense and knowing your emergency procedures and protective actions will help you mitigate a hazardous event until additional help arrives.



## 2.6 Evacuate or Shelter in Place?

# **Evacuate or Shelter in Place?**

When faced with an emergency situation, use common sense and available information to determine whether any danger is immediate. Depending on the circumstances and type of emergency, the first decision is whether to evacuate or shelter in place. You must understand and plan for both possibilities.

At LANL, EOC personnel and the incident commander are trained to make the decision of whether to evacuate or shelter. Notification for either protective action may come from management, the Laboratory Communications Office, or the Mass Notification System, which will be used to contact the LANL workforce with protective action instructions via office phones, LANL cell phones, and pagers. Text messages will be sent to pagers and e-mail messages to Lab accounts.

LANL may also at times experience work delays or closures due to inclement weather or unexpected Laboratory emergencies. To obtain the most current information on Laboratory emergencies, delays, and closures, check the LANL homepage or call the Lab Update Hotline at 667-6622 (toll free at 1-877-723-4101).

## 2.7 Site-Wide Evacuations

# Site-Wide Evacuations

LANL covers roughly 36 square miles with three major roads leaving toward the east and one major road to the west. During an evacuation, all available roadways will be used to distribute vehicles as evenly as possible in an attempt to reduce congestion. Early dismissals and closures of the Laboratory because of dangerous weather conditions or emergency events could require a site-wide evacuation. Depending on the nature of the emergency and its urgency, a decision will be made whether to evacuate the entire site or just specific zones.

## 2.8 Building Evacuations

# **Building Evacuations**

Building occupants may need to evacuate in the event of a chemical spill, fire, suspicious package/bomb threat, or other emergency. Once evacuated, personnel need to assemble at their designated assembly area for accountability. If necessary, alternate assembly areas will be identified when the building evacuation is issued and should be located uphill and upwind from the emergency event. Notifications of additional protective actions and the release to return to your building will be announced at the assembly area by the assembly area leader.

At the assembly point, the assembly area leader will gather information on the safety of personnel, the emergency situation, and any other relevant information. The assembly area leader will then act as the point of contact upon the arrival of emergency response personnel.

Depending on the type of incident, an emergency manager, the senior fire department representative, the senior police representative, or another appropriately trained individual will serve as the incident commander. The incident commander is the individual with authority and responsibility for command and control at an incident scene.

## 2.9 Your Responsibilities during an Evacuation

## Your Responsibilities during an Evacuation

Upon hearing the notification to evacuate (an alarm or verbal notification), all occupants must evacuate the building immediately according to the following guidelines:

- If safe to do so and with minimal delay, place hazardous operations and materials into a safe standby configuration;
- if accessible and safe to do so, take your coat, handbag/briefcase, and car keys in the event you are not allowed to reenter the building;
- do not carry food, drinks, or items that, if dropped, could inhibit safe egress or cause slips, trips, or falls;
- conduct a visual sweep along the exit route, looking for safety issues or anyone who might need assistance with evacuation;
- · escort visitors and contractors to the designated assembly area;
- do not use elevators;
- If it is safe to do so and will cause only minimal delay, take steps to deter others from entering. For example, post a sign in the area and close the door without locking it.;
- proceed to the designated assembly area using the evacuation route (i.e., if the route is blocked by unsafe conditions, take the nearest safe path out of the building);
- report to the designated assembly area for accountability;
- be aware of and give the right of way to responding emergency vehicles and personnel; and
- remain quiet and orderly at the designated assembly area, and walt for further instructions or until the all-clear signal is given by the incident commander or designee.



## 2.10 Visitor Evacuation



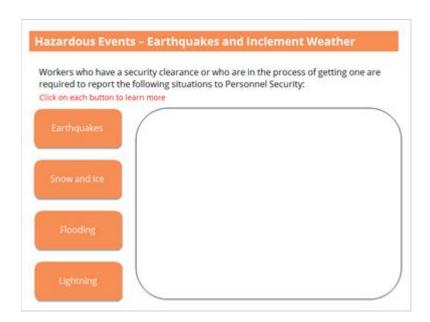
# 2.11 Building Reentry

# After an evacuation the first entry is made by emergency responders, who will determine if the area is safe for personnel. Do not reenter the building until instructed to do so by the assembly area leader (who must in turn be instructed by the incident commander). The incident commander is the only person authorized to give directions to return to the building.

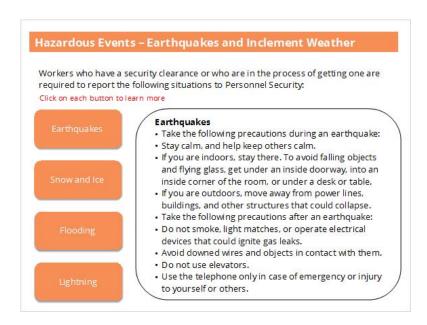
# 2.12 Reporting an Emergency



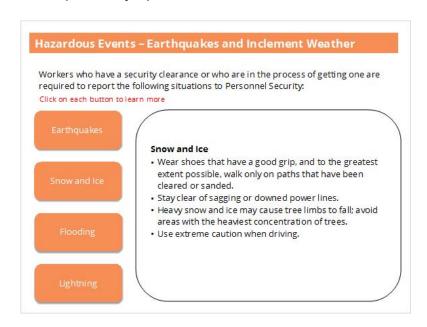
# 2.13 Hazardous Events – Earthquakes and Inclement Weather



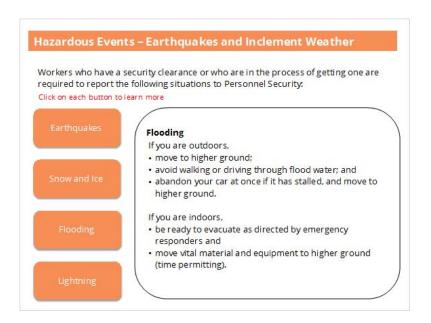
## earthquakes (Slide Layer)



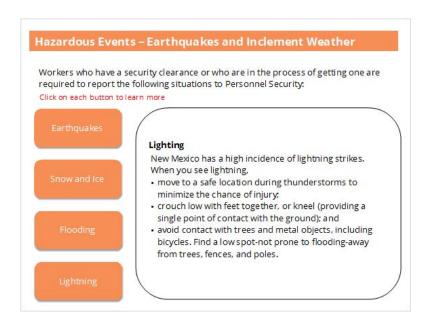
## snow (Slide Layer)



## flooding (Slide Layer)



## lightning (Slide Layer)



# 2.14 Hazardous Substance/Chemical Spills

## Hazardous Substance/Chemical Spills

Individuals must not attempt to control spills that are outside their approved work activity. Individuals must adhere to the following guidelines:

- · Isolate the area, leave, and warn others to stay away.
- · Move uphill and upwind.
- Immediately report the spill to the EOC at 667-6211. Be specific about the nature and location of the spilled materials.
- If you are exposed to chemicals, use the emergency eyewash/shower. Follow Safety Data Sheet (SDS, formerly MSDS) information.
- · If a radioactive substance has spilled, call the RCT.
- · Notify your responsible line manager and the Facility Operation Director (FOD).

Individuals with training, appropriate PPE, and appropriate spill containment material on hand may control a spill within their approved work activity

## 2.15 Bomb Threats

## **Bomb Threats**

If you receive a bomb threat, adhere to the following guidelines and the Laboratory's Bomb Threat checklist:

- · Remain calm.
- · If available, write down the phone number that appears on the caller identification screen.
- · After the caller hangs up,
  - immediately call 911,
  - give all available information to the operator,
  - call the EOC at 7-6211, and
  - notify your supervisor.
- Do not pull the fire alarm pull box.
- · Do not open/close windows or doors unless they are used to exit.
- · Do not touch light switches during a bomb threat evacuation.
- Leave your office/room if instructed to do so.
- · Evacuate to the assembly area in an orderly manner.

Avoid ALL radio and cell phone communications. Do not use two-way radios or cellular telephones. The first person to arrive at the assembly area should quickly scan for any suspicious items there. If a secondary device or suspicious item is found, immediately notify the incident commander and proceed to an alternate assembly area.

To locate the Bomb Threat Checklist on the Laboratory's home page, go the Safety tab at the top of the page and click on the Emergency link. The Bomb Threat checklist is located under the list of Quick links on the page.

## 2.16 Tag Your Bags

## **Tag Your Bags**

Security and safety are always a top priority. LANL requires that all personal items be properly tagged. Untagged bags abandoned in public places at the Laboratory are assumed by the Hazardous Devices Team to be hazardous devices.

If the owner cannot be located, the item(s) will be destroyed. Do your part to prevent disruptive and expensive false alarms by taking the time to tag your bags. The tag should identify you as the owner and list a number where you can be reached.

You may use any form of identification tags on your bags, such as airline luggage tags, as long as these tags are securely attached to your bags and contain your name and contact

# 2.17 Unclaimed, Unattended Objects

## **Unclaimed, Unattended Objects**

Although it may not initially appear to be a problem, an unattended package, backpack, coolers, or luggage where the owner cannot be determined is considered to be unclaimed and a possible security threat. If an unclaimed, unattended package or device is found, you

- · Immediately call 911 and the EOC at
- 7-6211, preferably from a landline phone in a safe location;
- · DO NOT pull the fire alarm;
- · NEVER move, bump, or touch the object. The removal/disarming of a bomb must be left up to the professionals with the Hazardous Devices Team;
- · secure the area, and prevent anyone from entering;
- evacuate the immediate area. The danger area should be identified and blocked off with a clear zone of at least 300 feet, including the area above and below the object;
- · avoid ALL radio and cell phone communications. Do not use two-way radios or cellular telephones because they could cause premature detonation of an electronic initiator;
- · notify your senior management; and
- · thoroughly wash your hands with soap and water if you are exposed to the suspicious package. Take care to not abrade the skin when washing.

## 2.18 Special Materials Convoy

## **Special Materials Convoy**

The use of special materials convoys allows LANL to ship most hazardous materials without requiring complete road closures. Special materials convoys can be identified as at least three vehicles: a leading escort vehicle, a trailing escort vehicle, and a transfer vehicle with flashing lights on the leading and trailing escort vehicles. Flashing red lights on the lead government vehicle are an indication of a convoy. A sign on the trailing escort vehicle will indicate that a transfer is in progress.

LANL, the Los Alamos Site Office, and the Department of Transportation (DOT) have agreed that the Pajarito corridor (Pajarito Road and its adjacent roads) meets the DOT requirements for "onsite transportation" of special materials because public access is protected on both ends by access portals. Although most special materials convoys will take place within the Pajarito corridor, these convoys can occur anywhere on LANL property. Road closures will still be needed during certain conditions inside and outside the Pajarito corridor, but the duration and impact on traffic will be minimal. For convoys outside the Pajarito corridor, warning signs will be posted and personnel will be placed as needed to ensure that public access is restricted.

## 2.19 Safety Expectations for Special Materials Convoy

## Safety Expectations for Special Materials Convoy

A special materials convoy must follow strict regulations. Employees who encounter a special materials convoy in progress must also follow strict regulations. If you encounter a special materials convoy while driving, you MUST

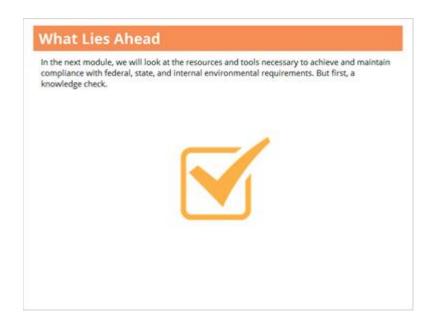
- maintain a reduced speed of no more than 35 miles per hour along the transfer route when coming up behind a convoy;
- · stay at least 50 feet behind the convoy;
- if the convoy is in the oncoming traffic lanes, move over safely, as far to the right as possible (it is not necessary to make a complete stop);
- · yield the right of way to the convoy, especially when the convoy is making a left-hand turn;
- · follow all signals, signs, and verbal instructions from convoy personnel; and
- maintain normal traffic flow as much as possible while being consistent with the preceding instructions.

#### DO NOT

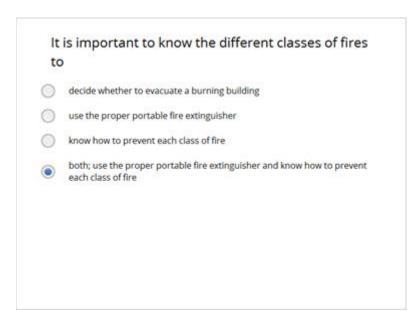
- pass the convoy in the direction of convoy travel,
- · panic or pull over if the convoy approaches from behind,
- · pull in front of the convoy or get between the escort vehicles and the transfer vehicle, or
- · make sudden stops in front of the convoy.

Employees or contractor personnel who do not comply with the special materials convoys safety expectations described above may be subject to disciplinary action.

## 2.20 What Lies Ahead



# 2.21 Knowledge Check



Correct	Choice
	decide whether to evacuate a burning building

	use the proper portable fire extinguisher
	know how to prevent each class of fire
Х	both; use the proper portable fire extinguisher and know how to prevent each class of fire

### Feedback when correct:

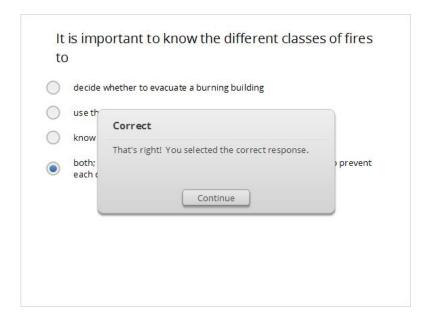
That's right! You selected the correct response.

### Feedback when incorrect:

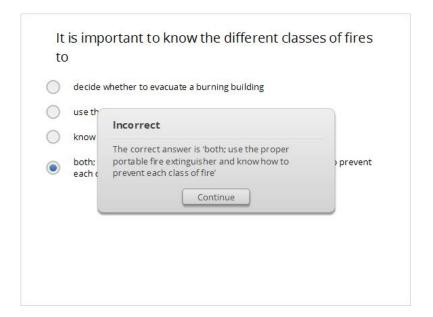
The correct answer is 'both; use the proper portable fire extinguisher and know how to prevent each class of fire'

### **Notes:**

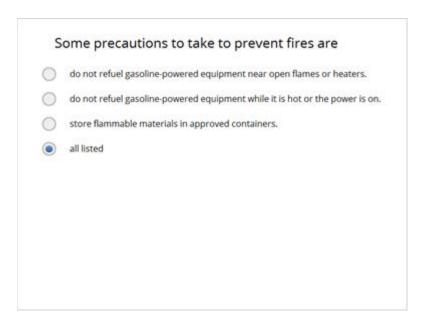
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 2.22 Knowledge Check



Correct	Choice
	do not refuel gasoline-powered equipment near open flames or heaters.

	do not refuel gasoline-powered equipment while it is hot or the power is on.
	store flammable materials in approved containers.
Х	all listed

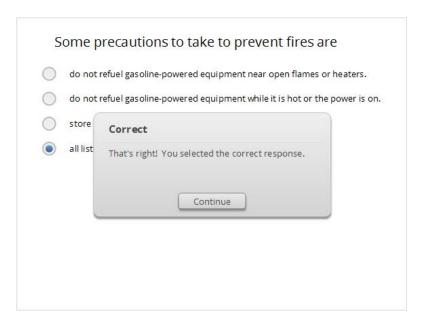
## Feedback when correct:

That's right! You selected the correct response.

## Feedback when incorrect:

The correct response is 'all listed.'

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 2.23 Knowledge Check



Correct	Choice
	point, aim, start, stop.

Х	pull, aim, squeeze, sweep.
	pass, act, survey, squeeze.
	pin, act, squeeze, stop.

## Feedback when correct:

That's right! You selected the correct response.

## Feedback when incorrect:

The correct answer is 'pull, aim, squeeze, sweep.'

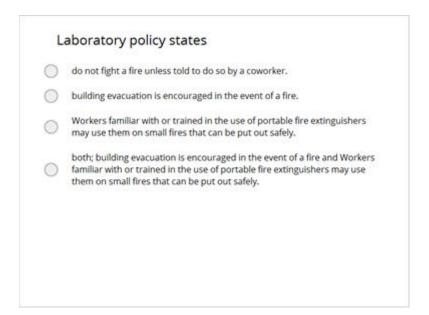
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 2.24 Knowledge Check



Correct	Choice
	do not fight a fire unless told to do so by a coworker.

building evacuation is encouraged in the event of a fire.

Workers familiar with or trained in the use of portable fire extinguishers may use them on small fires that can be put out safely.

both; building evacuation is encouraged in the event of a fire and Workers familiar with or trained in the use of portable fire extinguishers may use them on small fires that can be put out safely.

#### Feedback when correct:

That's right! You selected the correct response.

#### Feedback when incorrect:

The correct answer is 'both; building evacuation is encouraged in the event of a fire and Workers familiar with or trained in the use of portable fire extinguishers may use them on small fires that can be put out safely.'

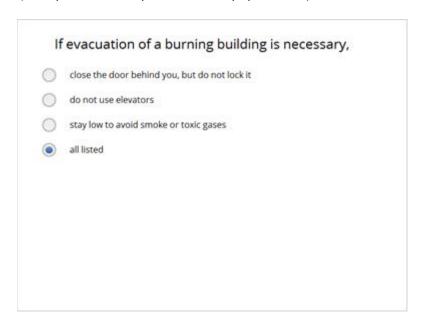
## **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 2.25 Knowledge Check



Correct	Choice
	close the door behind you, but do not lock it

	do not use elevators
	stay low to avoid smoke or toxic gases
Х	all listed

## Feedback when correct:

That's right! You selected the correct response.

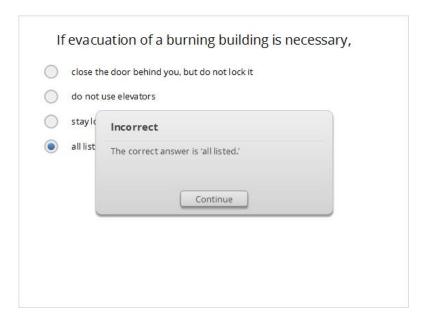
## Feedback when incorrect:

The correct answer is 'all listed.'

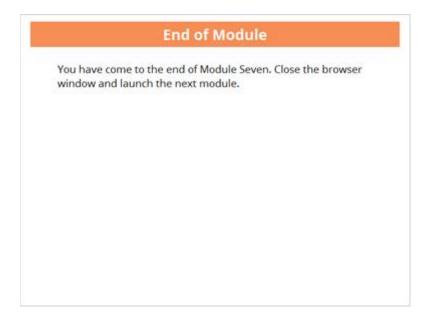
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 2.26 End of Module



# **Module8**

# 1. It's Your Environment

# 1.1 Introduction



**Notes:** 

# 1.2 Environmental Laws, Regulations, and Laboratory Requirements



Notes:

## 1.3 Vertical Tabs



Notes:

## Tab1 lyr (Slide Layer)



## Tab 2 lyr (Slide Layer)



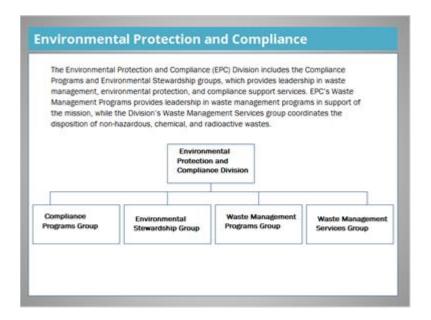
## Tab 3 lyr (Slide Layer)



## Tab 4 lyr (Slide Layer)



## 1.4 Environmental Protection and Compliance

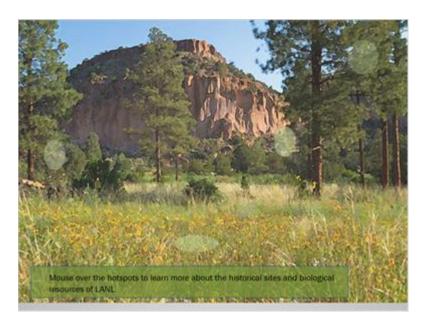


Notes:

## 1.5 Environmental Protection and Compliance cont.



# 1.6 Historical Map



# 1.7 LANL's RCRA Program

## **LANL's RCRA Program**

A critical role of the Environmental Compliance Programs group is RCRA permitting and compliance. Because every LANL employee generates waste in some form, we are all responsible for the safe the Laboratory's waste management process. While much of this waste is ordinary office and laboratory trash, some of it requires special handling. Failure to handle any waste properly from the time of generation through ultimate disposal ("cradle to grave") can lead not only lead to hazardous working conditions, but could result in the loss of special waste handling permits vital to the Laboratory continuing operations.



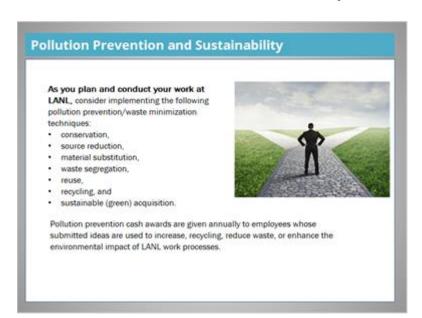
Recovery Act accelerates cleanup at LANL

The Waste Management Coordinator (WMC) Program provides direct waste management support and guidance to LANL facility operations through deployment of trained and qualified personnel to support routine waste disposition. Each group, division, or facility has a WMC who serves as the primary contact for waste management and pollution prevention/waste minimization efforts. The WMC is familiar with the organization's processes and procedures that generate waste and should be the first person you contact regarding waste management matters.

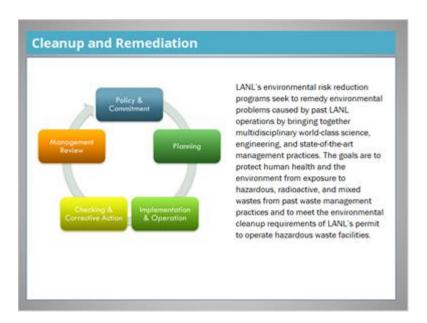
# 1.8 Environmental Management System



# 1.9 Pollution Prevention and Sustainability



# 1.10 Cleanup and Remediation



## 1.11 What Lies Ahead



# 1.12 Knowledge Check

0	keep a log of each piece of paper recycled
0	leave environment protection to the professional environmentalists
0	concentrate on completing a job without regard to the environment
•	know how their work interacts with the environment

Correct	Choice
	keep a log of each piece of paper recycled
	leave environment protection to the professional environmentalists
	concentrate on completing a job without regard to the environment
Х	know how their work interacts with the environment

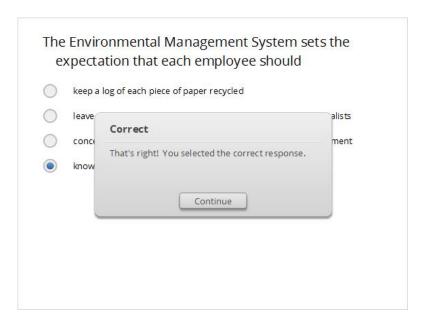
## Feedback when correct:

That's right! You selected the correct response.

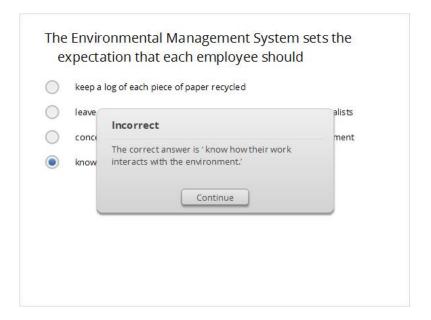
## Feedback when incorrect:

The correct answer is 'know how their work interacts with the environment.'

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.13 Knowledge Check

	removes all waste from the building
0	inspects all waste products
•	is the primary contact for waste management and pollution prevention/waste
0	treats all hazardous waste generated

Correct	Choice
	removes all waste from the building
	inspects all waste products
X	is the primary contact for waste management and pollution prevention/waste
	treats all hazardous waste generated

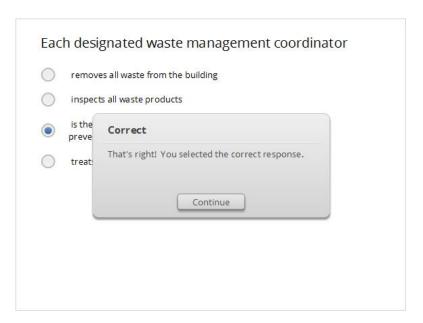
### Feedback when correct:

That's right! You selected the correct response.

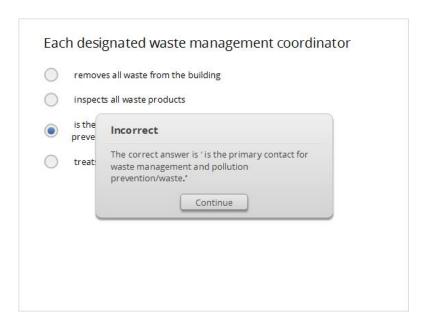
## Feedback when incorrect:

The correct answer is 'is the primary contact for waste management and pollution prevention/waste.'

# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.14 Knowledge Check

0	can result in fines
0	can result in closures
0	has the potential for personal liability if the violation is deliberate
•	all listed

Correct	Choice
	can result in fines
	can result in closures
	has the potential for personal liability if the violation is deliberate
Х	all listed

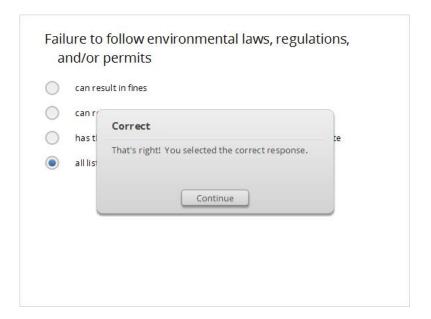
## Feedback when correct:

That's right! You selected the correct response.

## Feedback when incorrect:

The correct answer is 'all listed'.

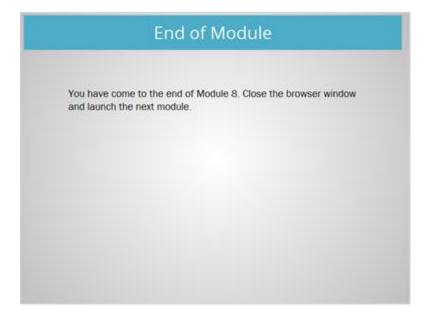
# **Correct (Slide Layer)**



# **Incorrect (Slide Layer)**



# 1.15 End of Module



Notes:

# 2. Untitled Scene

# 2.1 Archaeological



# 2.2 spotted owl



## Notes:

## 2.3 historic building



### 2.4 salamander



## **Module Nine**

## **1. Assurance Process**

## 1.1 Introduction



#### 1.2 Introduction

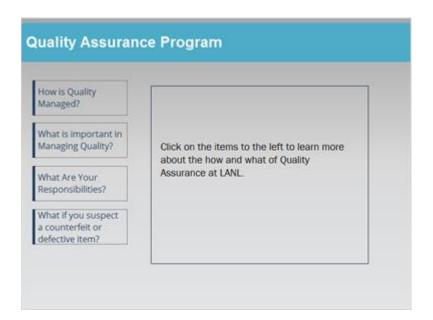


Notes:

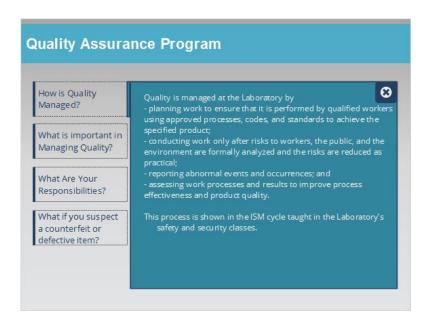
### 1.3 The Laboratory's Quality Assurance Process

## The Laboratory's Quality Assurance Process The Institutional QAP is the Laboratory's formal program of good practices for performing activities in a controlled manner and in accordance with technical standards and operational safety requirements. These practices are integrated in LANL's three-tiered requirements system: · Governing Policies-high-level policies issued by the director that govern Laboratory work across the institution · Institutional Documents-system descriptions, program descriptions, procedures, and requirements notices issued by the Director's Office or directorates that apply to everyone in the institution or to broad cross-organizational functions. Local Documents-Functional series documents and local instructions that define processes, operations, or other information needed to perform certain work. The Laboratory has many different types of work activities, all of which are governed under the umbrella of the Laboratory's QAP defined in SD330 LANL Quality Assurance Program. In addition to the Institutional QAP, these activities can have specialized sub-tier, documented quality programs, including research and development, weapons design and manufacturing, engineering, and construction.

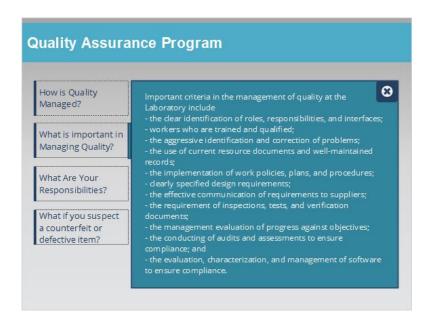
# 1.4 Quality Assurance Program



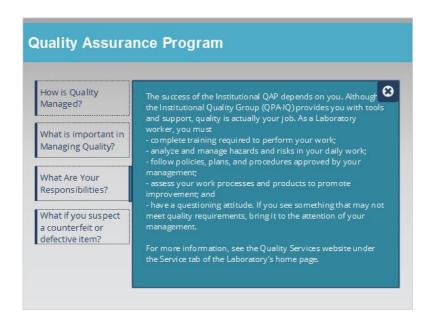
## Tab1 lyr (Slide Layer)



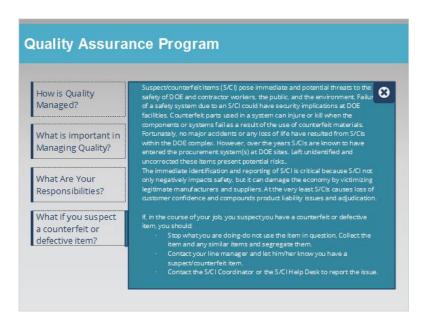
### Tab 2 lyr (Slide Layer)



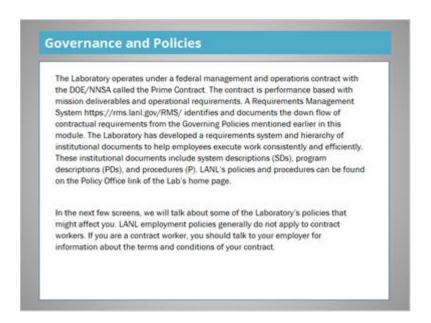
### Tab 3 lyr (Slide Layer)



### Tab 4 lyr (Slide Layer)



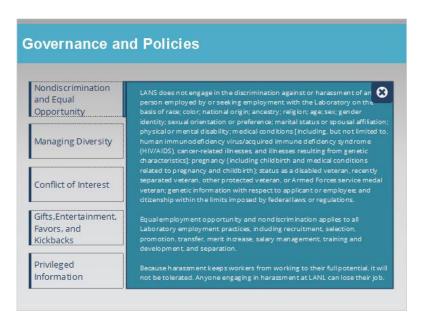
### 1.5 Governance and Policies



#### 1.6 Governance and Policies



## Tab1 lyr (Slide Layer)



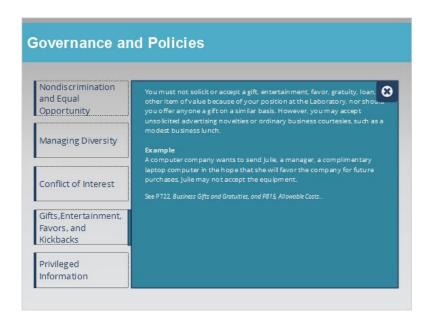
### Tab 2 lyr (Slide Layer)



## Tab 3 lyr (Slide Layer)



### Tab 4 lyr (Slide Layer)



## **Tab 5 lyr (Slide Layer)**

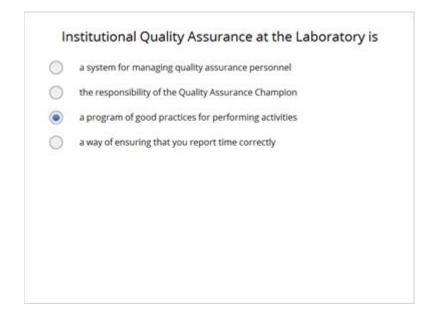


## 1.7 Using Government Property



## 1.8 Knowledge check

(Multiple Choice, 0 points, 1 attempt permitted)



Correct	Choice
	a system for managing quality assurance personnel
	the responsibility of the Quality Assurance Champion
Х	a program of good practices for performing activities
	a way of ensuring that you report time correctly

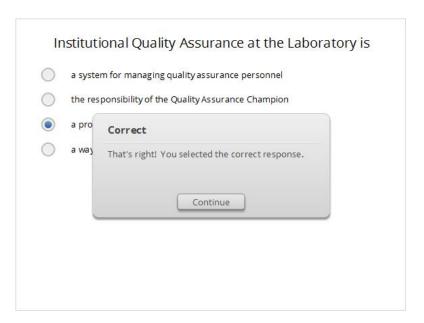
### Feedback when correct:

That's right! You selected the correct response.

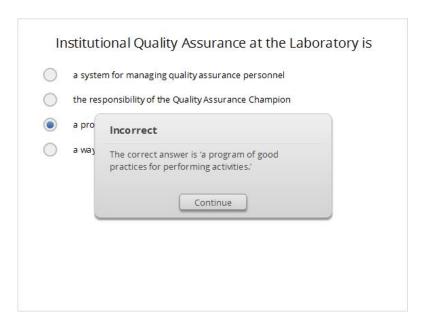
#### Feedback when incorrect:

The correct answer is 'a program of good practices for performing activities.'

## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



## 1.9 Knowledge check

(Multiple Choice, 0 points, 1 attempt permitted)

0	planning work, reducing risk, and reporting occurrences
0	conducting work before risks are formally analyzed
0	contracting work to service suppliers and vendors
0	following casual work-planning methods

Correct	Choice
Х	planning work, reducing risk, and reporting occurrences
	conducting work before risks are formally analyzed
	contracting work to service suppliers and vendors
	following casual work-planning methods

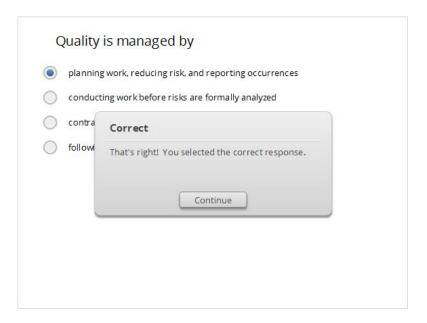
#### Feedback when correct:

That's right! You selected the correct response.

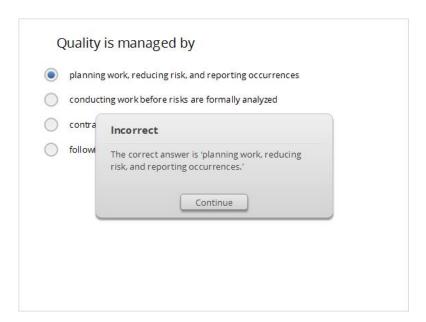
### Feedback when incorrect:

The correct answer is 'planning work, reducing risk, and reporting occurrences.'

## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**



## 1.10 Knowledge check

(Multiple Choice, 0 points, 1 attempt permitted)

Y	ou can help support quality improvements by
0	entering your time every week
0	having a questioning attitude
0	following traffic regulations
0	recycling newspapers

Correct	Choice
	entering your time every week
Х	having a questioning attitude
	following traffic regulations
	recycling newspapers

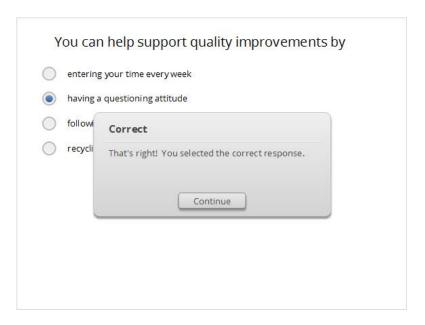
#### Feedback when correct:

That's right! You selected the correct response.

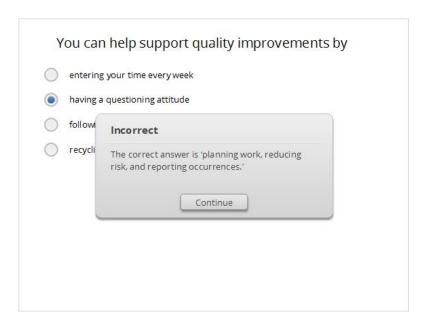
### Feedback when incorrect:

The correct answer is 'planning work, reducing risk, and reporting occurrences.'

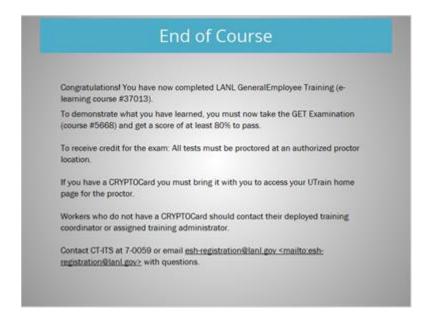
## **Correct (Slide Layer)**



## **Incorrect (Slide Layer)**

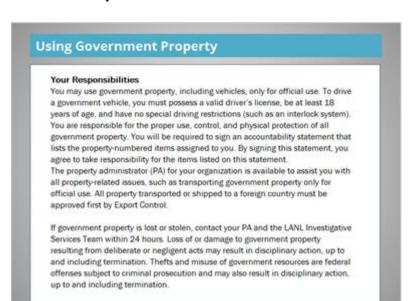


## 1.11 End of Course

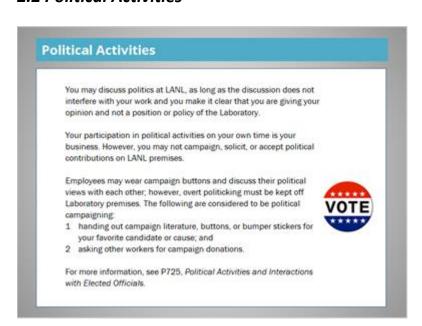


## 2. Property

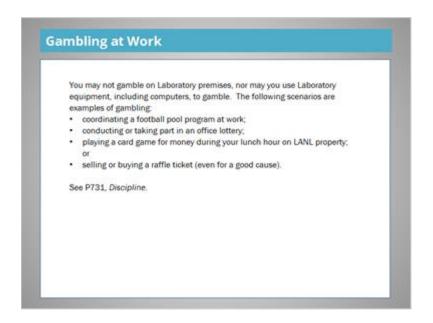
### 2.1 Your Responsibilities



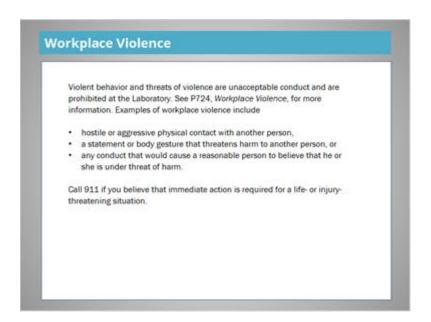
#### 2.2 Political Activities



## 2.3 Gambling at Work



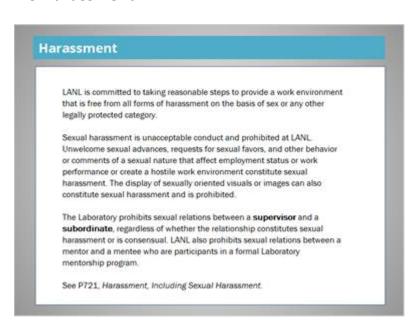
## 2.4 Workplace Violence



## 2.5 Reporting Improper Activities

### **Reporting Improper Activities** LANS encourages workers to bring forward good-faith concerns of an improper activity or of a situation that constitutes a threat to security, health, safety, the environment, or quality and to have those concerns addressed in an independent, objective manner. LANS investigates reports of improper activities in a confidential manner to protect workers from retaliation for reporting such activities. You may report allegations of improper activities by · addressing workplace concerns with your manager; calling LANL's Employee Concerns Program (ECP) 24-hour helpline at 5-9999; sending an e-mail to ecp@lanl.gov. sending a written concern to MS D449, Attention: Helpline; or calling a meeting with EA-Ethics personnel, who are located at TA-00, Building 787, 125 Central Park Square, 1st floor. See P793, Employee Concerns.

#### 2.6 Harassment



### 2.7 Smoking

#### **Smoking**

You may not smoke, which includes using electronic digarettes, in government vehicles, inside Laboratory buildings and inside offsite space leased by LANL. Smoking is also prohibited within 25 feet (horizontal and vertical) of doors, air intake vents, or operable windows of LANL buildings.

#### Smoking Areas

Facility Operations Directors (FODs) or other responsible line managers (RLMs) may provide designated smoking areas outside of LANL buildings or LANL-leased space.

- Designated smoking areas must be outfitted with ash receptacles and may include benches, tables, or other amenities.
- FODs may impose seasonal smoking restrictions in designated smoking areas if needed to minimize wildfire hazards.
- Smoking in areas near Laboratory-leased space or in areas occupied by LANL under other types of agreements is subject to the requirements of the property owner or landholder.
- Smoking is allowed at the Laboratory outside of buildings and in undeveloped areas, unless expressly prohibited.
- Smoking is allowed in covered parking structures, unless otherwise prohibited.
- Smokers may not dispose of embers, cigarette butts, matches, or other trash on the ground or in open water (streams, storm runoff, puddles, or landscaping features).
- Smokers may smoke in privately owned vehicles, if done in areas where smoking is not otherwise prohibited, but you may not flick ashes, embers, cigarette butts, or other smoking materials out of vehicles while at the Laboratory.

## 2.8 Misusing Government Property

#### **Misusing Government Property**

The following scenarios are examples of misuse of government property or resources:

- using LANL fax machines to advertise or solicit for a private business;
- · using LANL mail services for personal mail;
- using government equipment to produce mementos, such as those for birthdays and retirements:
- · taking home LANL supplies or equipment that your group no longer needs;
- using LANL computers to access non-work-related sites on the Internet, including those for pomography, gambling, and private business concerns;
- · making illegal copies of computer software;
- · using a government vehicle for non-work-related trips; and
- using LANL e-mail or mailing lists to send inappropriate material (sexually explicit, defamatory, etc.) to others...

Employees are generally given latitude to access the Internet on an incidental basis, such as to review the news.

LANL telephones, including cell phones, are for official business use. Make personal calls only when you must, and keep them brief. Avoid making personal long distance or international calls.